

## Technical Report for

### Tyco International

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
493

Accutest Job Number: MC37790

Sampling Dates: 04/01/15 - 04/02/15

#### Report to:

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Total number of pages in report: **97**



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Lab Director

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## Sample Summary

Tyco International

**Job No:** MC37790

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC37790-1	04/01/15	12:45 CF	04/06/15	AQ	Ground Water	PZ-3
MC37790-2	04/01/15	13:35 CF	04/06/15	AQ	Ground Water	PZ-7
MC37790-3	04/01/15	14:10 CF	04/06/15	AQ	Ground Water	PZ-12
MC37790-4	04/01/15	16:05 CF	04/06/15	AQ	Ground Water	PZ-6S
MC37790-5	04/01/15	15:30 CF	04/06/15	AQ	Ground Water	PZ-6D
MC37790-6	04/01/15	17:10 CF	04/06/15	AQ	Ground Water	PZ-15D
MC37790-7	04/01/15	16:50 CF	04/06/15	AQ	Ground Water	PZ-15S
MC37790-8	04/02/15	08:50 CF	04/06/15	AQ	Ground Water	PZ-1S
MC37790-9	04/02/15	09:20 CF	04/06/15	AQ	Ground Water	PZ-1D
MC37790-10	04/02/15	09:55 CF	04/06/15	AQ	Ground Water	PZ-17D
MC37790-11	04/02/15	11:00 CF	04/06/15	AQ	Ground Water	PZ-17S
MC37790-12	04/02/15	11:35 CF	04/06/15	AQ	Ground Water	PZ-16S
MC37790-13	04/02/15	11:55 CF	04/06/15	AQ	Ground Water	PZ-16D



## Sample Summary

(continued)

Tyco International

**Job No:** MC37790

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC37790-14	04/02/15	13:00 CF	04/06/15	AQ	Ground Water	PZ-2
MC37790-15	04/02/15	13:50 CF	04/06/15	AQ	Ground Water	FTC-15R
MC37790-16	04/02/15	14:25 CF	04/06/15	AQ	Ground Water	FTC-13R
MC37790-17	04/02/15	15:00 CF	04/06/15	AQ	Ground Water	CS-9R
MC37790-18	04/02/15	15:55 CF	04/06/15	AQ	Ground Water	FTC-2S
MC37790-19	04/02/15	16:40 CF	04/06/15	AQ	Ground Water	PZ-14S
MC37790-20	04/02/15	17:10 CF	04/06/15	AQ	Ground Water	PZ-14D



## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Tyco International **Job No** MC37790  
**Site:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marin **Report Date** 4/17/2015 1:45:30 PM

20 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 04/01/2015 and 04/02/2015 and were received at Accutest on 04/06/2015 properly preserved, at 0.5 Deg. C and intact. These Samples received an Accutest job number of MC37790. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Volatiles by GCMS By Method SW846 8260C

**Matrix:** AQ **Batch ID:** MSU1154

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC37761-1MS, MC37761-1MSD were used as the QC samples indicated.

**Matrix:** AQ **Batch ID:** MSU1155

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC37814-6MS, MC37814-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** MSV1370

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC37854-15MS, MC37854-15MSD were used as the QC samples indicated.
- RPD(s) for MSD for Vinyl Acetate are outside control limits for sample MC37854-15MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MC37790-5: The pH of the sample aliquot for VOA analysis was >2 at time of analysis. Elevated RL due to sample matrix.

**Matrix:** AQ **Batch ID:** MSV1371

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC37839-1MS, MC37839-1MSD were used as the QC samples indicated.
- MC37790-15, 16: The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

**Matrix:** AQ **Batch ID:** MSV1372

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC37790-3MS, MC37790-3MSD were used as the QC samples indicated.
- MC37790-1: Elevated RL due to sample matrix.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC37790).

## Summary of Hits

**Job Number:** MC37790  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 04/01/15 thru 04/02/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**MC37790-1 PZ-3**

Methyl Tert Butyl Ether <sup>a</sup>	60.2	10	3.5	ug/l	SW846 8260C
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**MC37790-2 PZ-7**

Benzene	32.9	2.5	1.4	ug/l	SW846 8260C
Ethylbenzene	5.0	5.0	1.2	ug/l	SW846 8260C
Xylene (total)	1.3 J	5.0	1.1	ug/l	SW846 8260C
Methyl Tert Butyl Ether	820	5.0	1.7	ug/l	SW846 8260C

**MC37790-3 PZ-12**

Methyl Tert Butyl Ether	44.2	1.0	0.35	ug/l	SW846 8260C
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**MC37790-4 PZ-6S**

No hits reported in this sample.

**MC37790-5 PZ-6D**

No hits reported in this sample.

**MC37790-6 PZ-15D**

Trichloroethene	0.53 J	1.0	0.25	ug/l	SW846 8260C
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**MC37790-7 PZ-15S**

No hits reported in this sample.

**MC37790-8 PZ-1S**

Chloromethane	4.7	2.0	0.49	ug/l	SW846 8260C
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**MC37790-9 PZ-1D**

No hits reported in this sample.

**MC37790-10 PZ-17D**

Benzene	0.48 J	0.50	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene	1.5	1.0	0.31	ug/l	SW846 8260C
Trichloroethene	12.3	1.0	0.25	ug/l	SW846 8260C

## Summary of Hits

**Job Number:** MC37790  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 04/01/15 thru 04/02/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**MC37790-11 PZ-17S**

No hits reported in this sample.

**MC37790-12 PZ-16S**

No hits reported in this sample.

**MC37790-13 PZ-16D**

Benzene	0.66	0.50	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene	0.78 J	1.0	0.31	ug/l	SW846 8260C
Trichloroethene	1.0	1.0	0.25	ug/l	SW846 8260C

**MC37790-14 PZ-2**

cis-1,2-Dichloroethene	3.5	1.0	0.31	ug/l	SW846 8260C
Trichloroethene	7.9	1.0	0.25	ug/l	SW846 8260C

**MC37790-15 FTC-15R**

Benzene <sup>b</sup>	2240	50	27	ug/l	SW846 8260C
Toluene <sup>b</sup>	39900	100	29	ug/l	SW846 8260C
Ethylbenzene <sup>b</sup>	753	100	24	ug/l	SW846 8260C
Xylene (total) <sup>b</sup>	7440	100	22	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>b</sup>	708	100	35	ug/l	SW846 8260C
Naphthalene <sup>b</sup>	274 J	500	200	ug/l	SW846 8260C
1,2,4-Trimethylbenzene <sup>b</sup>	1180	500	29	ug/l	SW846 8260C
1,3,5-Trimethylbenzene <sup>b</sup>	284 J	500	20	ug/l	SW846 8260C

**MC37790-16 FTC-13R**

Benzene <sup>b</sup>	4320	100	54	ug/l	SW846 8260C
Toluene <sup>b</sup>	37900	200	59	ug/l	SW846 8260C
Ethylbenzene <sup>b</sup>	502	200	48	ug/l	SW846 8260C
Xylene (total) <sup>b</sup>	3570	200	43	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>b</sup>	1410	200	70	ug/l	SW846 8260C
1,2,4-Trimethylbenzene <sup>b</sup>	317 J	1000	57	ug/l	SW846 8260C
1,3,5-Trimethylbenzene <sup>b</sup>	84.2 J	1000	40	ug/l	SW846 8260C

**MC37790-17 CS-9R**

Benzene	1300	5.0	2.7	ug/l	SW846 8260C
Toluene	34900	500	150	ug/l	SW846 8260C
Ethylbenzene	795	10	2.4	ug/l	SW846 8260C

## Summary of Hits

**Job Number:** MC37790  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 04/01/15 thru 04/02/15

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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Xylene (total)		4070	10	2.2	ug/l	SW846 8260C
Naphthalene		83.8	50	20	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		346	50	2.9	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		83.4	50	2.0	ug/l	SW846 8260C

### MC37790-18 FTC-2S

Benzene		9490	50	27	ug/l	SW846 8260C
Toluene		33300	100	29	ug/l	SW846 8260C
Ethylbenzene		2440	100	24	ug/l	SW846 8260C
Xylene (total)		13100	100	22	ug/l	SW846 8260C
Naphthalene		291 J	500	200	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1460	500	29	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		355 J	500	20	ug/l	SW846 8260C

### MC37790-19 PZ-14S

Benzene		19.6	0.50	0.27	ug/l	SW846 8260C
n-Butylbenzene		1.1 J	5.0	0.50	ug/l	SW846 8260C
Ethylbenzene		14.3	1.0	0.24	ug/l	SW846 8260C
Isopropylbenzene		0.66 J	5.0	0.27	ug/l	SW846 8260C
p-Isopropyltoluene		0.41 J	5.0	0.32	ug/l	SW846 8260C
Naphthalene		32.6	5.0	2.0	ug/l	SW846 8260C
n-Propylbenzene		1.9 J	5.0	0.29	ug/l	SW846 8260C
Toluene		165	1.0	0.29	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		31.9	5.0	0.29	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		9.6	5.0	0.20	ug/l	SW846 8260C
m,p-Xylene		76.9	1.0	0.47	ug/l	SW846 8260C
o-Xylene		42.0	1.0	0.22	ug/l	SW846 8260C
Xylene (total)		119	1.0	0.22	ug/l	SW846 8260C

### MC37790-20 PZ-14D

Benzene		10.2	0.50	0.27	ug/l	SW846 8260C
Ethylbenzene		4.7	1.0	0.24	ug/l	SW846 8260C
Naphthalene		2.0 J	5.0	2.0	ug/l	SW846 8260C
Toluene		80.4	1.0	0.29	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		3.2 J	5.0	0.29	ug/l	SW846 8260C
1,3,5-Trimethylbenzene		0.75 J	5.0	0.20	ug/l	SW846 8260C
m,p-Xylene		18.2	1.0	0.47	ug/l	SW846 8260C
o-Xylene		8.2	1.0	0.22	ug/l	SW846 8260C
Xylene (total)		26.4	1.0	0.22	ug/l	SW846 8260C

(a) Elevated RL due to sample matrix.

(b) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.



Sample Results

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Report of Analysis

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# Report of Analysis

<b>Client Sample ID:</b> PZ-3		
<b>Lab Sample ID:</b> MC37790-1		<b>Date Sampled:</b> 04/01/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/06/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	V38087.D	10	04/15/15	KD	n/a	n/a	MSV1372
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.7	ug/l	
108-88-3	Toluene	ND	10	2.9	ug/l	
100-41-4	Ethylbenzene	ND	10	2.4	ug/l	
1330-20-7	Xylene (total)	ND	10	2.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	60.2	10	3.5	ug/l	
91-20-3	Naphthalene	ND	50	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	2.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		72-133%
2037-26-5	Toluene-D8	105%		85-114%
460-00-4	4-Bromofluorobenzene	100%		70-134%

(a) Elevated RL due to sample matrix.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.1  
 4

## Report of Analysis

<b>Client Sample ID:</b> PZ-7		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-2		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V38070.D	5	04/15/15	KD	n/a	n/a	MSV1371
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

**Aromatic Volatiles**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	32.9	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	5.0	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	1.3	5.0	1.1	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	820	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	25	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		72-133%
2037-26-5	Toluene-D8	104%		85-114%
460-00-4	4-Bromofluorobenzene	102%		70-134%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.2  
4

# Report of Analysis

<b>Client Sample ID:</b> PZ-12		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-3		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V38088.D	1	04/15/15	KD	n/a	n/a	MSV1372
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	44.2	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		72-133%
2037-26-5	Toluene-D8	102%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.3  
4

# Report of Analysis

<b>Client Sample ID:</b> PZ-6S		
<b>Lab Sample ID:</b> MC37790-4		<b>Date Sampled:</b> 04/01/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/06/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V38053.D	1	04/14/15	KD	n/a	n/a	MSV1370
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.4  
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## Report of Analysis

<b>Client Sample ID:</b> PZ-6S		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-4		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-6S		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-4		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b>	PZ-6D	<b>Date Sampled:</b>	04/01/15
<b>Lab Sample ID:</b>	MC37790-5	<b>Date Received:</b>	04/06/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C	<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	V38055.D	1000	04/14/15	KD	n/a	n/a	MSV1370
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10000	2000	ug/l	
71-43-2	Benzene	ND	500	270	ug/l	
108-86-1	Bromobenzene	ND	5000	260	ug/l	
74-97-5	Bromochloromethane	ND	5000	370	ug/l	
75-27-4	Bromodichloromethane	ND	1000	180	ug/l	
75-25-2	Bromoform	ND	1000	390	ug/l	
74-83-9	Bromomethane	ND	2000	790	ug/l	
78-93-3	2-Butanone (MEK)	ND	5000	3000	ug/l	
104-51-8	n-Butylbenzene	ND	5000	500	ug/l	
135-98-8	sec-Butylbenzene	ND	5000	500	ug/l	
98-06-6	tert-Butylbenzene	ND	5000	570	ug/l	
75-15-0	Carbon disulfide	ND	5000	190	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	340	ug/l	
108-90-7	Chlorobenzene	ND	1000	240	ug/l	
75-00-3	Chloroethane	ND	2000	490	ug/l	
67-66-3	Chloroform	ND	1000	400	ug/l	
74-87-3	Chloromethane	ND	2000	490	ug/l	
95-49-8	o-Chlorotoluene	ND	5000	600	ug/l	
106-43-4	p-Chlorotoluene	ND	5000	460	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5000	830	ug/l	
124-48-1	Dibromochloromethane	ND	1000	220	ug/l	
106-93-4	1,2-Dibromoethane	ND	1000	330	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	240	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	240	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	370	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	530	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	280	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	310	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	280	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	310	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	480	ug/l	
78-87-5	1,2-Dichloropropane	ND	2000	210	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound





## Report of Analysis

<b>Client Sample ID:</b> PZ-6D		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-5		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		85-114%
460-00-4	4-Bromofluorobenzene	105%		70-134%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis. Elevated RL due to sample matrix.

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-15D		
<b>Lab Sample ID:</b> MC37790-6		<b>Date Sampled:</b> 04/01/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/06/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V38054.D	1	04/14/15	KD	n/a	n/a	MSV1370
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-15D		
<b>Lab Sample ID:</b> MC37790-6		<b>Date Sampled:</b> 04/01/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/06/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	0.53	1.0	0.25	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-133%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> PZ-15D		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-6		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> PZ-15S		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-7		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V38052.D	1	04/14/15	KD	n/a	n/a	MSV1370
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-15S		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-7		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-15S		<b>Date Sampled:</b> 04/01/15
<b>Lab Sample ID:</b> MC37790-7		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		85-114%
460-00-4	4-Bromofluorobenzene	100%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.7  
4



## Report of Analysis

<b>Client Sample ID:</b> PZ-1S		
<b>Lab Sample ID:</b> MC37790-8		<b>Date Sampled:</b> 04/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/06/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U27658.D	1	04/15/15	GK	n/a	n/a	MSU1154
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	4.7	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-1S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-8		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-1S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-8		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-1D		
<b>Lab Sample ID:</b> MC37790-9		<b>Date Sampled:</b> 04/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 04/06/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U27659.D	1	04/15/15	GK	n/a	n/a	MSU1154
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-1D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-9		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-1D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-9		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.9  
4

## Report of Analysis

<b>Client Sample ID:</b> PZ-17D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-10		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U27666.D	1	04/15/15	GK	n/a	n/a	MSU1154
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.48	0.50	0.27	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.5	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-17D	<b>Date Sampled:</b>	04/02/15
<b>Lab Sample ID:</b>	MC37790-10	<b>Date Received:</b>	04/06/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	12.3	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> PZ-17D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-10		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		85-114%
460-00-4	4-Bromofluorobenzene	98%		70-134%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-11		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U27660.D	1	04/15/15	GK	n/a	n/a	MSU1154
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-11		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-11		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

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ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-12		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U27661.D	1	04/15/15	GK	n/a	n/a	MSU1154
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-12		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-12		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		85-114%
460-00-4	4-Bromofluorobenzene	100%		70-134%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-13		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U27680.D	1	04/15/15	GK	n/a	n/a	MSU1155
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.66	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.78	1.0	0.31	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-13		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	1.0	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-13		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		85-114%
460-00-4	4-Bromofluorobenzene	94%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-2	<b>Date Sampled:</b>	04/02/15
<b>Lab Sample ID:</b>	MC37790-14	<b>Date Received:</b>	04/06/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C	<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	U27695.D	1	04/15/15	GK	n/a	n/a	MSU1155

Run #1	Purge Volume
Run #2	5.0 ml

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.5	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-2	<b>Date Sampled:</b>	04/02/15
<b>Lab Sample ID:</b>	MC37790-14	<b>Date Received:</b>	04/06/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C	<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

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### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	7.9	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		72-133%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-2		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-14		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		85-114%
460-00-4	4-Bromofluorobenzene	97%		70-134%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> FTC-15R		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-15		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	V38074.D	100	04/15/15	KD	n/a	n/a	MSV1371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	2240	50	27	ug/l	
108-88-3	Toluene	39900	100	29	ug/l	
100-41-4	Ethylbenzene	753	100	24	ug/l	
1330-20-7	Xylene (total)	7440	100	22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	708	100	35	ug/l	
91-20-3	Naphthalene	274	500	200	ug/l	J
95-63-6	1,2,4-Trimethylbenzene	1180	500	29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	284	500	20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-133%
2037-26-5	Toluene-D8	102%		85-114%
460-00-4	4-Bromofluorobenzene	99%		70-134%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> FTC-13R		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-16		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	V38076.D	200	04/15/15	KD	n/a	n/a	MSV1371
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	4320	100	54	ug/l	
108-88-3	Toluene	37900	200	59	ug/l	
100-41-4	Ethylbenzene	502	200	48	ug/l	
1330-20-7	Xylene (total)	3570	200	43	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1410	200	70	ug/l	
91-20-3	Naphthalene	ND	1000	400	ug/l	
95-63-6	1,2,4-Trimethylbenzene	317	1000	57	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	84.2	1000	40	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-133%
2037-26-5	Toluene-D8	101%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> CS-9R		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-17		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V38071.D	10	04/15/15	KD	n/a	n/a	MSV1371
Run #2	V38090.D	500	04/15/15	KD	n/a	n/a	MSV1372

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	1300	5.0	2.7	ug/l	
108-88-3	Toluene	34900 <sup>a</sup>	500	150	ug/l	
100-41-4	Ethylbenzene	795	10	2.4	ug/l	
1330-20-7	Xylene (total)	4070	10	2.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	3.5	ug/l	
91-20-3	Naphthalene	83.8	50	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	346	50	2.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	83.4	50	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%	109%	72-133%
2037-26-5	Toluene-D8	100%	102%	85-114%
460-00-4	4-Bromofluorobenzene	104%	102%	70-134%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> FTC-2S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-18		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V38075.D	100	04/15/15	KD	n/a	n/a	MSV1371
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9490	50	27	ug/l	
108-88-3	Toluene	33300	100	29	ug/l	
100-41-4	Ethylbenzene	2440	100	24	ug/l	
1330-20-7	Xylene (total)	13100	100	22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	35	ug/l	
91-20-3	Naphthalene	291	500	200	ug/l	J
95-63-6	1,2,4-Trimethylbenzene	1460	500	29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	355	500	20	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-133%
2037-26-5	Toluene-D8	104%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.18  
 4

# Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-19		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	U27698.D	1	04/15/15	GK	n/a	n/a	MSU1155

Run #1	Purge Volume
Run #2	5.0 ml

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	19.6	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	1.1	5.0	0.50	ug/l	J
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.19  
4

## Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-19		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	14.3	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	0.66	5.0	0.27	ug/l	J
99-87-6	p-Isopropyltoluene	0.41	5.0	0.32	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	32.6	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	1.9	5.0	0.29	ug/l	J
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	165	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	31.9	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	9.6	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	76.9	1.0	0.47	ug/l	
95-47-6	o-Xylene	42.0	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	119	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-19		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		85-114%
460-00-4	4-Bromofluorobenzene	100%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-14D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-20		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	U27696.D	1	04/15/15	GK	n/a	n/a	MSU1155

Run #1	Purge Volume
Run #2	5.0 ml

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	10.2	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-14D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-20		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	4.7	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	2.0	5.0	2.0	ug/l	J
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	80.4	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	3.2	5.0	0.29	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	0.75	5.0	0.20	ug/l	J
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	18.2	1.0	0.47	ug/l	
95-47-6	o-Xylene	8.2	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	26.4	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-14D		<b>Date Sampled:</b> 04/02/15
<b>Lab Sample ID:</b> MC37790-20		<b>Date Received:</b> 04/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

4.20  
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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		85-114%
460-00-4	4-Bromofluorobenzene	98%		70-134%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



Client Reporting Information				Project Information				FED-Ex Tracking #	Route Order Control #										
Company Name: <b>O+M, Inc</b> Project Name: <b>Ixco Mannette FTC</b> Street Address: <b>4830 N Berkeley Ave</b> Street: <b>2700 Industrial PKY S</b> City: <b>Wh. King Bay, WI, 53217</b> City: <b>Manhette, WI</b> Project Contact: <b>Eric Frauen</b> <i>efrauen@om.com</i> E-mail: <b>efrauen@om.com</b> 493 Phone #: <b>(414) 963-6210</b> Fax #: <b>(414) 963-6210</b> Sample ID: <b>Chris Frauen (414) 435-8235</b>				Billing Information (if different from Report to): Company Name: Street Address: City: State: Zip:				Accutest Order # Accutest Job #: <b>MC37790</b>	Matrix Codes: DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid A2E - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank										
Access Sample #	Field ID / Point of Collection	MEDICAL Use #	Collection			Number of preserved bottles										LAB USE ONLY			
			Date	Time	Sampled by	Matrix	# of bottles	ICE	NOCHL	HEXCL	HSECL	NONE	DT WASH	MEDCH	NON-MEDCH		REUSABLE		
-1	PZ-3		4/11/15	12:45			3	X											
-2	PZ-7			13:35															
-3	PZ-12			14:10															
-4	PZ-6S			16:05															
-5	PZ-6D			15:30															
-6	PZ-15D			17:40															
-7	PZ-15S			16:50															
-8	PZ-1S		4/21/15	8:50															
-9	PZ-7D			9:20															
-10	PZ-17D			9:55															
-11	PZ-17S			11:00															
-12	<del>PZ-16</del> PZ-16S			11:35															
Turnaround Time (Business days) <input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY		Approved By (Accutest PM) / Date: _____ _____		Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary		NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Form # <input type="checkbox"/> EDD Form # <input type="checkbox"/> Other _____		<b>REVISED</b> 111615											
Emergency & Rush TIA data available VIA Lablink										Sample Custody must be documented below each time samples change possession, including courier delivery.									
Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:	CHICAGO BC											
1	4/15/15 12:15		4/15/15		4/15/15 8:20		4/15/15 8:20												
3																			
5																			

5.1  
5  
5



Client/Reporting Information		Project Information		Test Position Analysis (see Test Order Sheet)										Matrix Codes									
Company Name <b>Oxym, Inc</b>		Project Name <b>Lyco Marinette FTC</b>		<div style="display: flex; justify-content: space-between;"> <span>VOCS</span> <span>PVOCs</span> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank									
Street Address <b>4930 N. Berkeley Blvd</b>		Street <b>2700 Industrial PKY S</b>																					
City, State, Zip <b>Whitefish Bay, WI, 53217</b>		City, State, Zip <b>Marinette, WI</b>																					
Project Contact <b>Eric Frauen</b>		Project <b>493</b>																					
Billing Information (If different from Report to)		Company Name		Street Address		City		State		Zip		Attention:		PO#									
Phone # <b>414 963-6210</b>		Fax #		Client PO#		Project Manager <b>Chris Frauen</b>		Phone # <b>414 435-8235</b>		Project Manager		Phone #		Project Manager									
Project Manager		Project Manager		Project Manager		Project Manager		Project Manager		Project Manager		Project Manager		Project Manager									
Turnaround Time (Business days)		Approved by (Accutest PM): / Date:		Commercial "A" (Level 1)		Commercial "B" (Level 2)		FULLT1 (Level 3+4)		CT RCP		MA MCP		NYASP Category A		NYASP Category B		State Forms		EDD Forms:		Other:	
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY		Approved by: _____ Date: _____		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP		<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Forms: <input type="checkbox"/> Other:		Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Commercial "A" = Results Only Commercial "B" = Results + QC Summary		Commercial "A" = Results Only Commercial "B" = Results + QC Summary	
Emergency & Rush T/A (state available VIA LabLink)		Sample Custody must be documented below each time sample change possession, including courier delivery.		<div style="text-align: center; border: 1px solid black; padding: 5px;"> <b>REVISED</b>                      4/15/15                 </div>																			
Relinquished by Sampler		Received By		Relinquished By		Relinquished By		Relinquished By		Relinquished By		Relinquished By		Relinquished By		Relinquished By		Relinquished By		Relinquished By		Relinquished By	
Date Time		Date Time		Date Time		Date Time		Date Time		Date Time		Date Time		Date Time		Date Time		Date Time		Date Time		Date Time	
3		4/13/15 12:15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15	
5		4/13/15 12:15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15		4/13/15	
Custody Seal #		Intact		Preserved where applicable		On Ice		Cooler Temp.		Custody Seal #		Intact		Preserved where applicable		On Ice		Cooler Temp.		Custody Seal #		Intact	
C41 079		Intact		Preserved where applicable		On Ice		Cooler Temp.		C41 079		Intact		Preserved where applicable		On Ice		Cooler Temp.		C41 079		Intact	
C41 079		Intact		Preserved where applicable		On Ice		Cooler Temp.		C41 079		Intact		Preserved where applicable		On Ice		Cooler Temp.		C41 079		Intact	

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**CHAIN OF CUSTODY**

Accutest Laboratories of New England  
495 Technology Center West, Building One  
TEL: 508-481-6200 FAX: 508-481-7753  
www.accutest.com

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)													Matrix Codes
Company Name <b>O + M, Inc</b>		Project Name <b>Txco Marinette FTC</b>																	Matrix Codes
Street Address <b>4830 N Berkeley Ave</b>		Street <b>2700 Industrial PKY S</b>																	D/W - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
City State Zip <b>Whitfish Bay, WI, 53217</b>		Billing Information (If different from Report to)																	
Project Contact <b>Eric Frauen effrauen@om.com</b>		Company Name <b>493</b>																	
Phone # <b>(414) 963-6210</b>		Street Address																	
Fax #		City State Zip																	
Sampler(s) Name(s) <b>Chris Frauen (414) 435-8235</b>		Project Manager																	
Phone #		Attention: PO#																	
Accutest Sample # <b>MC 37790</b>		Collection																	
Field ID / Point of Collection		MECH/ID Vial #																	
Date		Time																	
Sampled by		Matrix																	
# of bottles		Number of preserved Bottles																	
NACH		HNC3																	
H2SO4		NONE																	
ID Water		MECH																	
ENCLOSURE		Bottle																	
LAB USE ONLY																			
-1 PZ-3		4/1/15 12:45																	
-2 PZ-7																			
-3 PZ-12																			
-4 PZ-6S																			
-5 PZ-6D																			
-6 PZ-15D																			
-7 PZ-15S		4/2/15 16:50																	
-8 PZ-1S																			
-9 PZ-7D																			
-10 PZ-17D																			
-11 PZ-17S																			
-12 PZ-16D																			
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:				Data Deliverable Information				Comments / Special Instructions									
<input type="checkbox"/> Std. 10 Business Days						<input type="checkbox"/> Commercial "A" (Level 1)				2N1, 2N2									
<input type="checkbox"/> Std. 5 Business Days (By Contract only)						<input type="checkbox"/> Commercial "B" (Level 2)													
<input type="checkbox"/> 5 Day RUSH						<input type="checkbox"/> FULLT1 (Level 3+4)													
<input type="checkbox"/> 3 Day EMERGENCY						<input type="checkbox"/> CT RCP													
<input type="checkbox"/> 2 Day EMERGENCY						<input type="checkbox"/> MA MCP													
<input type="checkbox"/> 1 Day EMERGENCY						Commercial "A" = Results Only													
Emergency & Rush T/A data available VIA Lablink						Commercial "B" = Results + QC Summary													
Sample Custody must be documented below each time samples change possession, including courier delivery.													CHICAGO SC						
Relinquished by Sampler:		Date/Time:		Received By:		Relinquished By:		Date/Time:		Received By:									
1 <i>[Signature]</i>		4/3/15 12:15		4/3/15		2 <i>[Signature]</i>		4/6/15 8:20		2 <i>[Signature]</i>									
Relinquished by Sampler:		Date/Time:		Received By:		Relinquished By:		Date/Time:		Received By:									
3				3		4				4									
Relinquished by:		Date/Time:		Received By:		Custody Seal #		<input checked="" type="checkbox"/> Intact		Preserved where applicable		<input type="checkbox"/> On Ice		Cooler Temp.					
5				5		CHI 079		<input type="checkbox"/> Not intact				<input type="checkbox"/>		0.5					

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**MC37790: Chain of Custody**

Page 3 of 5

Client / Reporting Information		Project Information					Requested Analysis ( see TEST CODE sheet)										Matrix Codes						
Company Name <b>OEM, Inc</b>		Project Name <b>Trco Marinette FTC</b>					<div style="float: right; text-align: right;"> <p>MC 37790</p> </div>										<p>DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIO - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank</p>						
Street Address <b>4930 N. Berkeley Blvd</b>		Street <b>2700 Industrial PKY S</b>																					
City, State, Zip <b>Whitish Bay, WI, 53217</b>		Billing Information ( If different from Report to )																					
Project Contact <b>Eric Frauen etfrauen@hotmail.com</b>		Company Name <b>493</b>																					
Phone # <b>(414) 963-6210</b>		Street Address																					
E-mail <b>etfrauen@hotmail.com</b>		City, State, Zip																					
Fax #		Project PC#																					
Sampler(s) Name(s) <b>Chris Frauen (414) 435-8235</b>		Attention: PO#																					
Accutest Sample #	Field ID / Point of Collection	MED/UDI Vial #	Collection		Sampled by	Matrix	# of bottles	Number of preserved Bottles										LAB USE ONLY					
			Date	Time				HCl	NADH	HNO3	H2SO4	NONE	UP WATER	MEDH	ENCORE	BioRhish							
-13	P2-16 S		4/2/15	11:55			3	X															
-14	P2-2			13:00																			
-15	FTC-15 R			13:50																			
-16	FTC-13 R			14:25																			
-17	CS-9 R			15:00																			
-18	FTC-2 S			15:55																			
-19	P2-14 S			16:40																			
-20	P2-14 D		✓	17:10				✓	✓														
Turnaround Time ( Business days )		Approved By (Accutest PM) / Date:					Data Deliverable Information										Comments / Special Instructions						
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush TIA data available VIA Lablink							<input type="checkbox"/> Commercial "A" ( Level 1 ) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" ( Level 2 ) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 ( Level 3+4 ) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other Commercial "A" = Results Only Commercial "B" = Results + QC Summary																
<b>Sample Custody must be documented below each time samples change possession, including courier delivery.</b>																<b>CHICAGO SC</b>							
Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:																
<i>Chris Frauen</i>	4/3/15 12:15	<i>Chompany</i>	4/3/15		2:12:15	<i>FX</i>	4/4/15 8:20																
Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:																
Relinquished by:	Date/Time:	Received By:	Date/Time:	Custody Seal #	Intact	Preserved where applicable	On Ice	Cooler Temp.															
				CAF 079	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0.5															

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**MC37790: Chain of Custody**

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** MC37790      **Client:** O&M      **Project:** \_\_\_\_\_  
**Date / Time Received:** 4/6/2015 8:20:00 AM      **Delivery Method:** \_\_\_\_\_      **Airbill #'s:** \_\_\_\_\_  
**Cooler Temps (Initial/Adjusted):** #1: (0.5/0.5): \_\_\_\_\_

**Cooler Security**      Y or N      Y or N  
 1. Custody Seals Present:        3. COC Present:    
 2. Custody Seals Intact:        4. Smpl Dates/Time OK:

**Cooler Temperature**      Y or N  
 1. Temp criteria achieved:    
 2. Thermometer ID: \_\_\_\_\_ G1; \_\_\_\_\_  
 3. Cooler media: \_\_\_\_\_ Ice (Bag) \_\_\_\_\_  
 4. No. Coolers: \_\_\_\_\_ 1 \_\_\_\_\_

**Quality Control Preservation**      Y or N      N/A  
 1. Trip Blank present / cooler:     
 2. Trip Blank listed on COC:     
 3. Samples preserved properly:     
 4. VOCs headspace free:

**Sample Integrity - Documentation**      Y or N  
 1. Sample labels present on bottles:    
 2. Container labeling complete:    
 3. Sample container label / COC agree:

**Sample Integrity - Condition**      Y or N  
 1. Sample recvd within HT:    
 2. All containers accounted for:    
 3. Condition of sample: \_\_\_\_\_ Intact \_\_\_\_\_

**Sample Integrity - Instructions**      Y or N      N/A  
 1. Analysis requested is clear:    
 2. Bottles received for unspecified tests:    
 3. Sufficient volume recvd for analysis:    
 4. Compositing instructions clear:     
 5. Filtering instructions clear:

Comments

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## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

## Method Blank Summary

**Job Number:** MC37790**Account:** TINJP Tyco International**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1370-MB	V38034.D	1	04/14/15	KD	n/a	n/a	MSV1370

**The QC reported here applies to the following samples:****Method:** SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1370-MB	V38034.D	1	04/14/15	KD	n/a	n/a	MSV1370

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	



## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1370-MB	V38034.D	1	04/14/15	KD	n/a	n/a	MSV1370

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	100% 72-133%
2037-26-5	Toluene-D8	101% 85-114%
460-00-4	4-Bromofluorobenzene	100% 70-134%

## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1154-MB	U27651.D	1	04/15/15	GK	n/a	n/a	MSU1154

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1154-MB	U27651.D	1	04/15/15	GK	n/a	n/a	MSU1154

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1154-MB	U27651.D	1	04/15/15	GK	n/a	n/a	MSU1154

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	98% 72-133%
2037-26-5	Toluene-D8	97% 85-114%
460-00-4	4-Bromofluorobenzene	96% 70-134%

## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1371-MB	V38063.D	1	04/15/15	KD	n/a	n/a	MSV1371

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-2, MC37790-15, MC37790-16, MC37790-17, MC37790-18

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	109%	72-133%
2037-26-5	Toluene-D8	102%	85-114%
460-00-4	4-Bromofluorobenzene	100%	70-134%

# Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1372-MB	V38085.D	1	04/15/15	KD	n/a	n/a	MSV1372

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-1, MC37790-3, MC37790-17

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	112% 72-133%
2037-26-5	Toluene-D8	102% 85-114%
460-00-4	4-Bromofluorobenzene	100% 70-134%

## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1155-MB	U27679.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1155-MB	U27679.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	



## Method Blank Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1155-MB	U27679.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 72-133%
2037-26-5	Toluene-D8	95% 85-114%
460-00-4	4-Bromofluorobenzene	96% 70-134%

# Blank Spike Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1154-BS	U27648.D	1	04/14/15	GK	n/a	n/a	MSU1154

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	32.1	64	14-172
71-43-2	Benzene	50	49.1	98	68-127
108-86-1	Bromobenzene	50	49.9	100	74-124
74-97-5	Bromochloromethane	50	47.9	96	68-135
75-27-4	Bromodichloromethane	50	45.3	91	72-144
75-25-2	Bromoform	50	45.3	91	59-147
74-83-9	Bromomethane	50	48.7	97	34-175
78-93-3	2-Butanone (MEK)	50	38.8	78	43-147
104-51-8	n-Butylbenzene	50	49.8	100	77-136
135-98-8	sec-Butylbenzene	50	50.1	100	75-134
98-06-6	tert-Butylbenzene	50	50.8	102	74-132
75-15-0	Carbon disulfide	50	47.1	94	34-171
56-23-5	Carbon tetrachloride	50	48.0	96	55-153
108-90-7	Chlorobenzene	50	44.1	88	71-123
75-00-3	Chloroethane	50	50.9	102	58-175
67-66-3	Chloroform	50	45.3	91	67-136
74-87-3	Chloromethane	50	49.5	99	25-182
95-49-8	o-Chlorotoluene	50	48.6	97	72-130
106-43-4	p-Chlorotoluene	50	47.1	94	73-127
96-12-8	1,2-Dibromo-3-chloropropane	50	48.9	98	50-159
124-48-1	Dibromochloromethane	50	46.6	93	73-139
106-93-4	1,2-Dibromoethane	50	47.6	95	69-132
95-50-1	1,2-Dichlorobenzene	50	47.3	95	77-125
541-73-1	1,3-Dichlorobenzene	50	46.6	93	77-124
106-46-7	1,4-Dichlorobenzene	50	44.3	89	73-128
75-71-8	Dichlorodifluoromethane	50	64.9	130	23-157
75-34-3	1,1-Dichloroethane	50	45.6	91	63-145
107-06-2	1,2-Dichloroethane	50	43.9	88	58-145
75-35-4	1,1-Dichloroethene	50	47.2	94	56-158
156-59-2	cis-1,2-Dichloroethene	50	48.6	97	67-133
156-60-5	trans-1,2-Dichloroethene	50	48.5	97	66-136
78-87-5	1,2-Dichloropropane	50	48.6	97	75-133
142-28-9	1,3-Dichloropropane	50	48.9	98	70-127
594-20-7	2,2-Dichloropropane	50	40.0	80	52-163
563-58-6	1,1-Dichloropropene	50	46.0	92	77-140
10061-01-5	cis-1,3-Dichloropropene	50	51.6	103	74-141

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1154-BS	U27648.D	1	04/14/15	GK	n/a	n/a	MSU1154

**The QC reported here applies to the following samples:**

**Method:** SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	49.1	98	77-143
100-41-4	Ethylbenzene	50	47.0	94	71-129
87-68-3	Hexachlorobutadiene	50	52.3	105	64-146
591-78-6	2-Hexanone	50	36.2	72	22-163
74-88-4	Iodomethane	50	50.6	101	30-166
98-82-8	Isopropylbenzene	50	50.2	100	72-133
99-87-6	p-Isopropyltoluene	50	50.8	102	77-134
1634-04-4	Methyl Tert Butyl Ether	50	46.2	92	46-151
108-10-1	4-Methyl-2-pentanone (MIBK)	50	46.0	92	47-145
74-95-3	Methylene bromide	50	44.1	88	70-132
75-09-2	Methylene chloride	50	46.0	92	55-146
91-20-3	Naphthalene	50	51.7	103	39-176
103-65-1	n-Propylbenzene	50	47.9	96	74-134
100-42-5	Styrene	50	45.5	91	71-134
630-20-6	1,1,1,2-Tetrachloroethane	50	49.2	98	70-137
79-34-5	1,1,2,2-Tetrachloroethane	50	51.7	103	58-145
127-18-4	Tetrachloroethene	50	48.5	97	63-137
108-88-3	Toluene	50	48.1	96	75-126
87-61-6	1,2,3-Trichlorobenzene	50	55.8	112	27-181
120-82-1	1,2,4-Trichlorobenzene	50	52.8	106	40-176
71-55-6	1,1,1-Trichloroethane	50	47.2	94	68-144
79-00-5	1,1,2-Trichloroethane	50	48.2	96	72-133
79-01-6	Trichloroethene	50	48.3	97	73-126
75-69-4	Trichlorofluoromethane	50	50.9	102	43-152
96-18-4	1,2,3-Trichloropropane	50	51.9	104	58-141
95-63-6	1,2,4-Trimethylbenzene	50	50.4	101	76-129
108-67-8	1,3,5-Trimethylbenzene	50	53.7	107	71-127
108-05-4	Vinyl Acetate	50	65.1	130	10-170
75-01-4	Vinyl chloride	50	48.7	97	36-167
	m,p-Xylene	100	94.3	94	68-130
95-47-6	o-Xylene	50	47.6	95	69-126
1330-20-7	Xylene (total)	150	142	95	67-129

\* = Outside of Control Limits.

## Blank Spike Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1154-BS	U27648.D	1	04/14/15	GK	n/a	n/a	MSU1154

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	72-133%
2037-26-5	Toluene-D8	100%	85-114%
460-00-4	4-Bromofluorobenzene	103%	70-134%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** MC37790  
**Account:** TINJP Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1371-BS	V38060.D	1	04/15/15	KD	n/a	n/a	MSV1371

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-2, MC37790-15, MC37790-16, MC37790-17, MC37790-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	44.9	90	68-127
100-41-4	Ethylbenzene	50	48.3	97	71-129
1634-04-4	Methyl Tert Butyl Ether	50	50.3	101	46-151
91-20-3	Naphthalene	50	34.6	69	39-176
108-88-3	Toluene	50	47.2	94	75-126
95-63-6	1,2,4-Trimethylbenzene	50	47.7	95	76-129
108-67-8	1,3,5-Trimethylbenzene	50	47.7	95	71-127
1330-20-7	Xylene (total)	150	143	95	67-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	72-133%
2037-26-5	Toluene-D8	104%	85-114%
460-00-4	4-Bromofluorobenzene	101%	70-134%

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1155-BS	U27676.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	34.9	70	14-172
71-43-2	Benzene	50	53.2	106	68-127
108-86-1	Bromobenzene	50	52.7	105	74-124
74-97-5	Bromochloromethane	50	51.2	102	68-135
75-27-4	Bromodichloromethane	50	48.4	97	72-144
75-25-2	Bromoform	50	45.9	92	59-147
74-83-9	Bromomethane	50	50.6	101	34-175
78-93-3	2-Butanone (MEK)	50	48.8	98	43-147
104-51-8	n-Butylbenzene	50	54.3	109	77-136
135-98-8	sec-Butylbenzene	50	53.4	107	75-134
98-06-6	tert-Butylbenzene	50	53.9	108	74-132
75-15-0	Carbon disulfide	50	52.4	105	34-171
56-23-5	Carbon tetrachloride	50	53.3	107	55-153
108-90-7	Chlorobenzene	50	46.5	93	71-123
75-00-3	Chloroethane	50	53.1	106	58-175
67-66-3	Chloroform	50	49.9	100	67-136
74-87-3	Chloromethane	50	49.6	99	25-182
95-49-8	o-Chlorotoluene	50	52.4	105	72-130
106-43-4	p-Chlorotoluene	50	50.5	101	73-127
96-12-8	1,2-Dibromo-3-chloropropane	50	45.9	92	50-159
124-48-1	Dibromochloromethane	50	47.1	94	73-139
106-93-4	1,2-Dibromoethane	50	48.0	96	69-132
95-50-1	1,2-Dichlorobenzene	50	50.4	101	77-125
541-73-1	1,3-Dichlorobenzene	50	49.8	100	77-124
106-46-7	1,4-Dichlorobenzene	50	47.6	95	73-128
75-71-8	Dichlorodifluoromethane	50	66.5	133	23-157
75-34-3	1,1-Dichloroethane	50	50.4	101	63-145
107-06-2	1,2-Dichloroethane	50	46.8	94	58-145
75-35-4	1,1-Dichloroethene	50	53.6	107	56-158
156-59-2	cis-1,2-Dichloroethene	50	52.9	106	67-133
156-60-5	trans-1,2-Dichloroethene	50	54.1	108	66-136
78-87-5	1,2-Dichloropropane	50	51.3	103	75-133
142-28-9	1,3-Dichloropropane	50	50.4	101	70-127
594-20-7	2,2-Dichloropropane	50	51.4	103	52-163
563-58-6	1,1-Dichloropropene	50	50.2	100	77-140
10061-01-5	cis-1,3-Dichloropropene	50	55.9	112	74-141

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** MC37790  
**Account:** TINJP Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1155-BS	U27676.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	53.3	107	77-143
100-41-4	Ethylbenzene	50	49.8	100	71-129
87-68-3	Hexachlorobutadiene	50	60.1	120	64-146
591-78-6	2-Hexanone	50	56.8	114	22-163
74-88-4	Iodomethane	50	55.6	111	30-166
98-82-8	Isopropylbenzene	50	54.0	108	72-133
99-87-6	p-Isopropyltoluene	50	54.7	109	77-134
1634-04-4	Methyl Tert Butyl Ether	50	49.2	98	46-151
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.5	95	47-145
74-95-3	Methylene bromide	50	45.0	90	70-132
75-09-2	Methylene chloride	50	50.3	101	55-146
91-20-3	Naphthalene	50	50.7	101	39-176
103-65-1	n-Propylbenzene	50	51.5	103	74-134
100-42-5	Styrene	50	48.0	96	71-134
630-20-6	1,1,1,2-Tetrachloroethane	50	51.1	102	70-137
79-34-5	1,1,2,2-Tetrachloroethane	50	52.0	104	58-145
127-18-4	Tetrachloroethene	50	51.1	102	63-137
108-88-3	Toluene	50	52.1	104	75-126
87-61-6	1,2,3-Trichlorobenzene	50	58.9	118	27-181
120-82-1	1,2,4-Trichlorobenzene	50	57.1	114	40-176
71-55-6	1,1,1-Trichloroethane	50	52.5	105	68-144
79-00-5	1,1,2-Trichloroethane	50	51.0	102	72-133
79-01-6	Trichloroethene	50	52.9	106	73-126
75-69-4	Trichlorofluoromethane	50	51.7	103	43-152
96-18-4	1,2,3-Trichloropropane	50	51.5	103	58-141
95-63-6	1,2,4-Trimethylbenzene	50	54.3	109	76-129
108-67-8	1,3,5-Trimethylbenzene	50	58.0	116	71-127
108-05-4	Vinyl Acetate	50	64.5	129	10-170
75-01-4	Vinyl chloride	50	49.1	98	36-167
	m,p-Xylene	100	99.3	99	68-130
95-47-6	o-Xylene	50	49.9	100	69-126
1330-20-7	Xylene (total)	150	149	99	67-129

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** MC37790  
**Account:** TINJP Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1155-BS	U27676.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	72-133%
2037-26-5	Toluene-D8	103%	85-114%
460-00-4	4-Bromofluorobenzene	104%	70-134%

\* = Outside of Control Limits.



# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1370-BS	V38031.D	1	04/14/15	KD	n/a	n/a	MSV1370
MSV1370-BSD	V38032.D	1	04/14/15	KD	n/a	n/a	MSV1370

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	44.1	88	42.7	85	3	14-172/25
71-43-2	Benzene	50	47.4	95	45.5	91	4	68-127/25
108-86-1	Bromobenzene	50	50.1	100	48.2	96	4	74-124/25
74-97-5	Bromochloromethane	50	48.1	96	46.7	93	3	68-135/25
75-27-4	Bromodichloromethane	50	50.2	100	48.4	97	4	72-144/25
75-25-2	Bromoform	50	43.7	87	42.7	85	2	59-147/25
74-83-9	Bromomethane	50	50.4	101	46.4	93	8	34-175/25
78-93-3	2-Butanone (MEK)	50	41.5	83	40.0	80	4	43-147/25
104-51-8	n-Butylbenzene	50	50.6	101	47.5	95	6	77-136/25
135-98-8	sec-Butylbenzene	50	50.8	102	47.4	95	7	75-134/25
98-06-6	tert-Butylbenzene	50	47.7	95	45.3	91	5	74-132/25
75-15-0	Carbon disulfide	50	51.6	103	47.5	95	8	34-171/25
56-23-5	Carbon tetrachloride	50	50.7	101	47.1	94	7	55-153/25
108-90-7	Chlorobenzene	50	49.8	100	48.2	96	3	71-123/25
75-00-3	Chloroethane	50	49.4	99	46.4	93	6	58-175/25
67-66-3	Chloroform	50	49.2	98	47.2	94	4	67-136/25
74-87-3	Chloromethane	50	43.5	87	40.4	81	7	25-182/25
95-49-8	o-Chlorotoluene	50	49.3	99	46.9	94	5	72-130/25
106-43-4	p-Chlorotoluene	50	49.0	98	47.4	95	3	73-127/25
96-12-8	1,2-Dibromo-3-chloropropane	50	36.3	73	36.7	73	1	50-159/25
124-48-1	Dibromochloromethane	50	44.3	89	43.7	87	1	73-139/25
106-93-4	1,2-Dibromoethane	50	48.2	96	47.6	95	1	69-132/25
95-50-1	1,2-Dichlorobenzene	50	47.2	94	45.2	90	4	77-125/25
541-73-1	1,3-Dichlorobenzene	50	48.7	97	46.9	94	4	77-124/25
106-46-7	1,4-Dichlorobenzene	50	47.6	95	45.4	91	5	73-128/25
75-71-8	Dichlorodifluoromethane	50	38.1	76	37.2	74	2	23-157/25
75-34-3	1,1-Dichloroethane	50	51.4	103	49.2	98	4	63-145/25
107-06-2	1,2-Dichloroethane	50	45.9	92	45.0	90	2	58-145/25
75-35-4	1,1-Dichloroethene	50	53.8	108	49.9	100	8	56-158/25
156-59-2	cis-1,2-Dichloroethene	50	49.8	100	47.4	95	5	67-133/25
156-60-5	trans-1,2-Dichloroethene	50	50.9	102	47.7	95	6	66-136/25
78-87-5	1,2-Dichloropropane	50	50.9	102	48.8	98	4	75-133/25
142-28-9	1,3-Dichloropropane	50	46.4	93	45.8	92	1	70-127/25
594-20-7	2,2-Dichloropropane	50	51.6	103	48.1	96	7	52-163/25
563-58-6	1,1-Dichloropropene	50	50.0	100	48.0	96	4	77-140/25
10061-01-5	cis-1,3-Dichloropropene	50	46.2	92	45.2	90	2	74-141/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1370-BS	V38031.D	1	04/14/15	KD	n/a	n/a	MSV1370
MSV1370-BSD	V38032.D	1	04/14/15	KD	n/a	n/a	MSV1370

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	46.3	93	45.8	92	1	77-143/25
100-41-4	Ethylbenzene	50	52.2	104	49.5	99	5	71-129/25
87-68-3	Hexachlorobutadiene	50	46.1	92	43.9	88	5	64-146/25
591-78-6	2-Hexanone	50	36.3	73	36.5	73	1	22-163/25
74-88-4	Iodomethane	50	51.5	103	47.8	96	7	30-166/25
98-82-8	Isopropylbenzene	50	51.4	103	48.0	96	7	72-133/25
99-87-6	p-Isopropyltoluene	50	50.8	102	47.6	95	7	77-134/25
1634-04-4	Methyl Tert Butyl Ether	50	54.6	109	52.6	105	4	46-151/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.7	85	41.2	82	4	47-145/25
74-95-3	Methylene bromide	50	47.3	95	46.1	92	3	70-132/25
75-09-2	Methylene chloride	50	49.1	98	46.1	92	6	55-146/25
91-20-3	Naphthalene	50	39.7	79	39.0	78	2	39-176/25
103-65-1	n-Propylbenzene	50	52.6	105	50.2	100	5	74-134/25
100-42-5	Styrene	50	51.2	102	50.0	100	2	71-134/25
630-20-6	1,1,1,2-Tetrachloroethane	50	45.8	92	42.7	85	7	70-137/25
79-34-5	1,1,2,2-Tetrachloroethane	50	46.9	94	45.5	91	3	58-145/25
127-18-4	Tetrachloroethene	50	50.4	101	48.0	96	5	63-137/25
108-88-3	Toluene	50	50.1	100	48.0	96	4	75-126/25
87-61-6	1,2,3-Trichlorobenzene	50	42.6	85	41.3	83	3	27-181/25
120-82-1	1,2,4-Trichlorobenzene	50	44.7	89	42.9	86	4	40-176/25
71-55-6	1,1,1-Trichloroethane	50	48.7	97	45.7	91	6	68-144/25
79-00-5	1,1,2-Trichloroethane	50	48.9	98	49.1	98	0	72-133/25
79-01-6	Trichloroethene	50	48.4	97	46.9	94	3	73-126/25
75-69-4	Trichlorofluoromethane	50	42.8	86	39.4	79	8	43-152/25
96-18-4	1,2,3-Trichloropropane	50	51.2	102	50.4	101	2	58-141/25
95-63-6	1,2,4-Trimethylbenzene	50	51.1	102	48.4	97	5	76-129/25
108-67-8	1,3,5-Trimethylbenzene	50	50.8	102	47.7	95	6	71-127/25
108-05-4	Vinyl Acetate	50	53.0	106	52.0	104	2	10-170/25
75-01-4	Vinyl chloride	50	43.9	88	40.4	81	8	36-167/25
	m,p-Xylene	100	104	104	98.3	98	6	68-130/25
95-47-6	o-Xylene	50	52.3	105	48.3	97	8	69-126/25
1330-20-7	Xylene (total)	150	156	104	147	98	6	67-129/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1370-BS	V38031.D	1	04/14/15	KD	n/a	n/a	MSV1370
MSV1370-BSD	V38032.D	1	04/14/15	KD	n/a	n/a	MSV1370

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	100%	72-133%
2037-26-5	Toluene-D8	103%	101%	85-114%
460-00-4	4-Bromofluorobenzene	102%	102%	70-134%

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1372-BS	V38082.D	1	04/15/15	KD	n/a	n/a	MSV1372
MSV1372-BSD	V38083.D	1	04/15/15	KD	n/a	n/a	MSV1372

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-1, MC37790-3, MC37790-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	47.4	95	48.5	97	2	68-127/25
100-41-4	Ethylbenzene	50	50.2	100	51.2	102	2	71-129/25
1634-04-4	Methyl Tert Butyl Ether	50	51.5	103	51.6	103	0	46-151/25
91-20-3	Naphthalene	50	37.1	74	35.9	72	3	39-176/25
108-88-3	Toluene	50	50.7	101	51.2	102	1	75-126/25
95-63-6	1,2,4-Trimethylbenzene	50	50.2	100	52.5	105	4	76-129/25
108-67-8	1,3,5-Trimethylbenzene	50	49.7	99	52.8	106	6	71-127/25
1330-20-7	Xylene (total)	150	147	98	151	101	3	67-129/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	105%	72-133%
2037-26-5	Toluene-D8	104%	105%	85-114%
460-00-4	4-Bromofluorobenzene	104%	104%	70-134%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37854-15MS	V38040.D	5	04/14/15	KD	n/a	n/a	MSV1370
MC37854-15MSD	V38041.D	5	04/14/15	KD	n/a	n/a	MSV1370
MC37854-15	V38036.D	1	04/14/15	KD	n/a	n/a	MSV1370

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Compound	MC37854-15 Spike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q ug/l							
67-64-1	Acetone	ND	250	145	58	250	132	53	9	10-135/30
71-43-2	Benzene	5.1	250	236	92	250	240	94	2	61-138/30
108-86-1	Bromobenzene	ND	250	237	95	250	243	97	3	71-126/30
74-97-5	Bromochloromethane	ND	250	235	94	250	232	93	1	70-136/30
75-27-4	Bromodichloromethane	ND	250	253	101	250	254	102	0	73-146/30
75-25-2	Bromoform	ND	250	217	87	250	213	85	2	54-147/30
74-83-9	Bromomethane	ND	250	262	105	250	253	101	3	20-171/30
78-93-3	2-Butanone (MEK)	ND	250	177	71	250	175	70	1	33-127/30
104-51-8	n-Butylbenzene	ND	250	244	98	250	250	100	2	69-138/30
135-98-8	sec-Butylbenzene	ND	250	238	95	250	248	99	4	71-137/30
98-06-6	tert-Butylbenzene	ND	250	224	90	250	239	96	6	68-137/30
75-15-0	Carbon disulfide	ND	250	250	100	250	243	97	3	29-178/30
56-23-5	Carbon tetrachloride	ND	250	248	99	250	243	97	2	57-155/30
108-90-7	Chlorobenzene	ND	250	241	96	250	243	97	1	69-126/30
75-00-3	Chloroethane	ND	250	260	104	250	247	99	5	57-182/30
67-66-3	Chloroform	ND	250	243	97	250	246	98	1	66-142/30
74-87-3	Chloromethane	ND	250	235	94	250	225	90	4	18-182/30
95-49-8	o-Chlorotoluene	ND	250	239	96	250	244	98	2	60-145/30
106-43-4	p-Chlorotoluene	ND	250	239	96	250	245	98	2	64-138/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	183	73	250	184	74	1	46-160/30
124-48-1	Dibromochloromethane	ND	250	222	89	250	219	88	1	71-138/30
106-93-4	1,2-Dibromoethane	ND	250	237	95	250	235	94	1	71-129/30
95-50-1	1,2-Dichlorobenzene	ND	250	228	91	250	231	92	1	75-125/30
541-73-1	1,3-Dichlorobenzene	ND	250	232	93	250	238	95	3	74-125/30
106-46-7	1,4-Dichlorobenzene	ND	250	225	90	250	232	93	3	72-128/30
75-71-8	Dichlorodifluoromethane	ND	250	205	82	250	202	81	1	23-159/30
75-34-3	1,1-Dichloroethane	ND	250	251	100	250	250	100	0	63-150/30
107-06-2	1,2-Dichloroethane	ND	250	238	95	250	236	94	1	57-150/30
75-35-4	1,1-Dichloroethene	ND	250	257	103	250	253	101	2	53-165/30
156-59-2	cis-1,2-Dichloroethene	ND	250	243	97	250	241	96	1	66-138/30
156-60-5	trans-1,2-Dichloroethene	ND	250	246	98	250	243	97	1	65-141/30
78-87-5	1,2-Dichloropropane	ND	250	251	100	250	252	101	0	76-136/30
142-28-9	1,3-Dichloropropane	ND	250	229	92	250	228	91	0	71-127/30
594-20-7	2,2-Dichloropropane	ND	250	239	96	250	235	94	2	33-175/30
563-58-6	1,1-Dichloropropene	ND	250	242	97	250	248	99	2	76-145/30
10061-01-5	cis-1,3-Dichloropropene	ND	250	221	88	250	225	90	2	75-137/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37854-15MS	V38040.D	5	04/14/15	KD	n/a	n/a	MSV1370
MC37854-15MSD	V38041.D	5	04/14/15	KD	n/a	n/a	MSV1370
MC37854-15	V38036.D	1	04/14/15	KD	n/a	n/a	MSV1370

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Compound	MC37854-15 Spike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
10061-02-6	trans-1,3-Dichloropropene	ND	250	229	92	250	227	91	1	77-139/30
100-41-4	Ethylbenzene	0.25	250	252	101	250	256	102	2	61-137/30
87-68-3	Hexachlorobutadiene	ND	250	212	85	250	225	90	6	59-141/30
591-78-6	2-Hexanone	ND	250	164	66	250	160	64	2	12-141/30
74-88-4	Iodomethane	ND	250	246	98	250	239	96	3	21-171/30
98-82-8	Isopropylbenzene	2.0	250	242	96	250	255	101	5	64-141/30
99-87-6	p-Isopropyltoluene	ND	250	239	96	250	246	98	3	73-135/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	263	105	250	251	100	5	34-160/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	216	86	250	206	82	5	47-143/30
74-95-3	Methylene bromide	ND	250	242	97	250	239	96	1	73-132/30
75-09-2	Methylene chloride	ND	250	241	96	250	234	94	3	52-154/30
91-20-3	Naphthalene	ND	250	191	76	250	190	76	1	21-185/30
103-65-1	n-Propylbenzene	2.6	250	254	101	250	261	103	3	66-141/30
100-42-5	Styrene	ND	250	249	100	250	248	99	0	60-142/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	221	88	250	223	89	1	69-138/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	234	94	250	231	92	1	58-147/30
127-18-4	Tetrachloroethene	ND	250	237	95	250	244	98	3	60-140/30
108-88-3	Toluene	ND	250	246	98	250	250	100	2	74-131/30
87-61-6	1,2,3-Trichlorobenzene	ND	250	200	80	250	203	81	1	12-184/30
120-82-1	1,2,4-Trichlorobenzene	ND	250	209	84	250	212	85	1	30-175/30
71-55-6	1,1,1-Trichloroethane	ND	250	233	93	250	233	93	0	67-151/30
79-00-5	1,1,2-Trichloroethane	ND	250	253	101	250	246	98	3	73-134/30
79-01-6	Trichloroethene	ND	250	234	94	250	241	96	3	68-133/30
75-69-4	Trichlorofluoromethane	ND	250	229	92	250	225	90	2	40-159/30
96-18-4	1,2,3-Trichloropropane	ND	250	213	85	250	209	84	2	54-141/30
95-63-6	1,2,4-Trimethylbenzene	ND	250	244	98	250	251	100	3	62-142/30
108-67-8	1,3,5-Trimethylbenzene	ND	250	241	96	250	252	101	4	62-133/30
108-05-4	Vinyl Acetate	ND	250	102	41	250	270	108	90* a	10-169/30
75-01-4	Vinyl chloride	ND	250	226	90	250	220	88	3	29-176/30
	m,p-Xylene	ND	500	495	99	500	501	100	1	58-139/30
95-47-6	o-Xylene	ND	250	248	99	250	251	100	1	61-135/30
1330-20-7	Xylene (total)	ND	750	743	99	750	751	100	1	60-136/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37854-15MS	V38040.D	5	04/14/15	KD	n/a	n/a	MSV1370
MC37854-15MSD	V38041.D	5	04/14/15	KD	n/a	n/a	MSV1370
MC37854-15	V38036.D	1	04/14/15	KD	n/a	n/a	MSV1370

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-4, MC37790-5, MC37790-6, MC37790-7

CAS No.	Surrogate Recoveries	MS	MSD	MC37854-15 Limits	
1868-53-7	Dibromofluoromethane	102%	101%	102%	72-133%
2037-26-5	Toluene-D8	103%	103%	101%	85-114%
460-00-4	4-Bromofluorobenzene	101%	102%	101%	70-134%

(a) High RPD due to possible matrix interference and/or sample non-homogeneity.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37761-1MS	U27663.D	5	04/15/15	GK	n/a	n/a	MSU1154
MC37761-1MSD	U27664.D	5	04/15/15	GK	n/a	n/a	MSU1154
MC37761-1	U27662.D	1	04/15/15	GK	n/a	n/a	MSU1154

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Compound	MC37761-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	7.1	250	174	67	250	180	69	3	10-135/30
71-43-2	Benzene	ND	250	235	94	250	234	94	0	61-138/30
108-86-1	Bromobenzene	ND	250	250	100	250	247	99	1	71-126/30
74-97-5	Bromochloromethane	ND	250	221	88	250	226	90	2	70-136/30
75-27-4	Bromodichloromethane	ND	250	216	86	250	217	87	0	73-146/30
75-25-2	Bromoform	ND	250	215	86	250	224	90	4	54-147/30
74-83-9	Bromomethane	ND	250	208	83	250	206	82	1	20-171/30
78-93-3	2-Butanone (MEK)	ND	250	194	78	250	243	97	22	33-127/30
104-51-8	n-Butylbenzene	ND	250	229	92	250	230	92	0	69-138/30
135-98-8	sec-Butylbenzene	ND	250	235	94	250	232	93	1	71-137/30
98-06-6	tert-Butylbenzene	ND	250	242	97	250	238	95	2	68-137/30
75-15-0	Carbon disulfide	ND	250	211	84	250	211	84	0	29-178/30
56-23-5	Carbon tetrachloride	ND	250	214	86	250	216	86	1	57-155/30
108-90-7	Chlorobenzene	ND	250	225	90	250	224	90	0	69-126/30
75-00-3	Chloroethane	ND	250	215	86	250	216	86	0	57-182/30
67-66-3	Chloroform	ND	250	209	84	250	209	84	0	66-142/30
74-87-3	Chloromethane	ND	250	209	84	250	209	84	0	18-182/30
95-49-8	o-Chlorotoluene	ND	250	232	93	250	230	92	1	60-145/30
106-43-4	p-Chlorotoluene	ND	250	235	94	250	232	93	1	64-138/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	256	102	250	267	107	4	46-160/30
124-48-1	Dibromochloromethane	ND	250	229	92	250	229	92	0	71-138/30
106-93-4	1,2-Dibromoethane	ND	250	250	100	250	251	100	0	71-129/30
95-50-1	1,2-Dichlorobenzene	ND	250	223	89	250	226	90	1	75-125/30
541-73-1	1,3-Dichlorobenzene	ND	250	228	91	250	226	90	1	74-125/30
106-46-7	1,4-Dichlorobenzene	ND	250	217	87	250	218	87	0	72-128/30
75-71-8	Dichlorodifluoromethane	ND	250	255	102	250	262	105	3	23-159/30
75-34-3	1,1-Dichloroethane	0.42	250	208	83	250	211	84	1	63-150/30
107-06-2	1,2-Dichloroethane	ND	250	210	84	250	212	85	1	57-150/30
75-35-4	1,1-Dichloroethene	ND	250	212	85	250	217	87	2	53-165/30
156-59-2	cis-1,2-Dichloroethene	33.3	250	249	86	250	253	88	2	66-138/30
156-60-5	trans-1,2-Dichloroethene	ND	250	223	89	250	222	89	0	65-141/30
78-87-5	1,2-Dichloropropane	ND	250	238	95	250	235	94	1	76-136/30
142-28-9	1,3-Dichloropropane	ND	250	260	104	250	258	103	1	71-127/30
594-20-7	2,2-Dichloropropane	ND	250	137	55	250	137	55	0	33-175/30
563-58-6	1,1-Dichloropropene	ND	250	221	88	250	219	88	1	76-145/30
10061-01-5	cis-1,3-Dichloropropene	ND	250	248	99	250	247	99	0	75-137/30

\* = Outside of Control Limits.



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37761-1MS	U27663.D	5	04/15/15	GK	n/a	n/a	MSU1154
MC37761-1MSD	U27664.D	5	04/15/15	GK	n/a	n/a	MSU1154
MC37761-1	U27662.D	1	04/15/15	GK	n/a	n/a	MSU1154

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Compound	MC37761-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	250	247	99	250	246	98	0	77-139/30
100-41-4	Ethylbenzene	0.29	250	231	92	250	229	91	1	61-137/30
87-68-3	Hexachlorobutadiene	ND	250	240	96	250	246	98	2	59-141/30
591-78-6	2-Hexanone	ND	250	195	78	250	205	82	5	12-141/30
74-88-4	Iodomethane	ND	250	238	95	250	239	96	0	21-171/30
98-82-8	Isopropylbenzene	ND	250	239	96	250	235	94	2	64-141/30
99-87-6	p-Isopropyltoluene	ND	250	238	95	250	236	94	1	73-135/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	217	87	250	225	90	4	34-160/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	253	101	250	263	105	4	47-143/30
74-95-3	Methylene bromide	ND	250	218	87	250	222	89	2	73-132/30
75-09-2	Methylene chloride	ND	250	223	89	250	221	88	1	52-154/30
91-20-3	Naphthalene	ND	250	248	99	250	261	104	5	21-185/30
103-65-1	n-Propylbenzene	ND	250	231	92	250	227	91	2	66-141/30
100-42-5	Styrene	ND	250	228	91	250	224	90	2	60-142/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	228	91	250	230	92	1	69-138/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	271	108	250	274	110	1	58-147/30
127-18-4	Tetrachloroethene	ND	250	241	96	250	235	94	3	60-140/30
108-88-3	Toluene	0.77	250	246	98	250	241	96	2	74-131/30
87-61-6	1,2,3-Trichlorobenzene	ND	250	252	101	250	264	106	5	12-184/30
120-82-1	1,2,4-Trichlorobenzene	ND	250	235	94	250	243	97	3	30-175/30
71-55-6	1,1,1-Trichloroethane	1.2	250	212	84	250	217	86	2	67-151/30
79-00-5	1,1,2-Trichloroethane	ND	250	256	102	250	255	102	0	73-134/30
79-01-6	Trichloroethene	39.1	250	264	90	250	260	88	2	68-133/30
75-69-4	Trichlorofluoromethane	ND	250	205	82	250	207	83	1	40-159/30
96-18-4	1,2,3-Trichloropropane	ND	250	251	100	250	259	104	3	54-141/30
95-63-6	1,2,4-Trimethylbenzene	1.3	250	237	94	250	239	95	1	62-142/30
108-67-8	1,3,5-Trimethylbenzene	0.59	250	252	101	250	251	100	0	62-133/30
108-05-4	Vinyl Acetate	ND	250	328	131	250	335	134	2	10-169/30
75-01-4	Vinyl chloride	0.85	250	211	84	250	208	83	1	29-176/30
	m,p-Xylene	1.4	500	465	93	500	461	92	1	58-139/30
95-47-6	o-Xylene	1.5	250	223	89	250	224	89	0	61-135/30
1330-20-7	Xylene (total)	2.9	750	688	91	750	685	91	0	60-136/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37761-1MS	U27663.D	5	04/15/15	GK	n/a	n/a	MSU1154
MC37761-1MSD	U27664.D	5	04/15/15	GK	n/a	n/a	MSU1154
MC37761-1	U27662.D	1	04/15/15	GK	n/a	n/a	MSU1154

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-8, MC37790-9, MC37790-10, MC37790-11, MC37790-12

CAS No.	Surrogate Recoveries	MS	MSD	MC37761-1	Limits
1868-53-7	Dibromofluoromethane	92%	93%	94%	72-133%
2037-26-5	Toluene-D8	101%	101%	95%	85-114%
460-00-4	4-Bromofluorobenzene	106%	105%	99%	70-134%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37839-1MS	V38077.D	5	04/15/15	KD	n/a	n/a	MSV1371
MC37839-1MSD	V38078.D	5	04/15/15	KD	n/a	n/a	MSV1371
MC37839-1	V38065.D	1	04/15/15	KD	n/a	n/a	MSV1371

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-2, MC37790-15, MC37790-16, MC37790-17, MC37790-18

CAS No.	Compound	MC37839-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	237	95	250	246	98	4	61-138/30
100-41-4	Ethylbenzene	ND	250	248	99	250	258	103	4	61-137/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	253	101	250	266	106	5	34-160/30
91-20-3	Naphthalene	ND	250	176	70	250	182	73	3	21-185/30
108-88-3	Toluene	ND	250	255	102	250	263	105	3	74-131/30
95-63-6	1,2,4-Trimethylbenzene	ND	250	239	96	250	249	100	4	62-142/30
108-67-8	1,3,5-Trimethylbenzene	ND	250	237	95	250	247	99	4	62-133/30
1330-20-7	Xylene (total)	ND	750	728	97	750	748	100	3	60-136/30

CAS No.	Surrogate Recoveries	MS	MSD	MC37839-1	Limits
1868-53-7	Dibromofluoromethane	106%	106%	115%	72-133%
2037-26-5	Toluene-D8	105%	107%	102%	85-114%
460-00-4	4-Bromofluorobenzene	102%	101%	98%	70-134%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37814-6MS	U27689.D	1	04/15/15	GK	n/a	n/a	MSU1155
MC37814-6MSD	U27690.D	1	04/15/15	GK	n/a	n/a	MSU1155
MC37814-6	U27681.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Compound	MC37814-6 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	50	26.1	52	50	32.9	66	23	10-135/30
71-43-2	Benzene	ND	50	50.4	101	50	49.8	100	1	61-138/30
108-86-1	Bromobenzene	ND	50	52.6	105	50	52.5	105	0	71-126/30
74-97-5	Bromochloromethane	ND	50	49.5	99	50	47.4	95	4	70-136/30
75-27-4	Bromodichloromethane	ND	50	46.4	93	50	46.0	92	1	73-146/30
75-25-2	Bromoform	ND	50	44.8	90	50	45.6	91	2	54-147/30
74-83-9	Bromomethane	ND	50	47.9	96	50	45.6	91	5	20-171/30
78-93-3	2-Butanone (MEK)	ND	50	35.6	71	50	47.5	95	29	33-127/30
104-51-8	n-Butylbenzene	ND	50	50.3	101	50	50.1	100	0	69-138/30
135-98-8	sec-Butylbenzene	ND	50	50.5	101	50	49.7	99	2	71-137/30
98-06-6	tert-Butylbenzene	ND	50	51.8	104	50	50.8	102	2	68-137/30
75-15-0	Carbon disulfide	ND	50	46.2	92	50	44.5	89	4	29-178/30
56-23-5	Carbon tetrachloride	ND	50	47.9	96	50	46.2	92	4	57-155/30
108-90-7	Chlorobenzene	ND	50	46.8	94	50	46.3	93	1	69-126/30
75-00-3	Chloroethane	ND	50	47.6	95	50	46.0	92	3	57-182/30
67-66-3	Chloroform	ND	50	46.1	92	50	45.1	90	2	66-142/30
74-87-3	Chloromethane	ND	50	46.6	93	50	44.1	88	6	18-182/30
95-49-8	o-Chlorotoluene	ND	50	50.5	101	50	48.8	98	3	60-145/30
106-43-4	p-Chlorotoluene	ND	50	49.9	100	50	49.4	99	1	64-138/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	48.4	97	50	51.0	102	5	46-160/30
124-48-1	Dibromochloromethane	ND	50	47.7	95	50	47.9	96	0	71-138/30
106-93-4	1,2-Dibromoethane	ND	50	50.5	101	50	51.3	103	2	71-129/30
95-50-1	1,2-Dichlorobenzene	ND	50	48.1	96	50	47.6	95	1	75-125/30
541-73-1	1,3-Dichlorobenzene	ND	50	48.4	97	50	48.3	97	0	74-125/30
106-46-7	1,4-Dichlorobenzene	ND	50	45.9	92	50	45.8	92	0	72-128/30
75-71-8	Dichlorodifluoromethane	ND	50	58.9	118	50	56.0	112	5	23-159/30
75-34-3	1,1-Dichloroethane	ND	50	46.0	92	50	44.2	88	4	63-150/30
107-06-2	1,2-Dichloroethane	ND	50	45.3	91	50	44.9	90	1	57-150/30
75-35-4	1,1-Dichloroethene	ND	50	47.1	94	50	45.5	91	3	53-165/30
156-59-2	cis-1,2-Dichloroethene	ND	50	49.7	99	50	47.5	95	5	66-138/30
156-60-5	trans-1,2-Dichloroethene	ND	50	48.4	97	50	47.6	95	2	65-141/30
78-87-5	1,2-Dichloropropane	ND	50	49.9	100	50	50.5	101	1	76-136/30
142-28-9	1,3-Dichloropropane	ND	50	51.9	104	50	52.7	105	2	71-127/30
594-20-7	2,2-Dichloropropane	ND	50	43.5	87	50	40.9	82	6	33-175/30
563-58-6	1,1-Dichloropropene	ND	50	47.1	94	50	46.5	93	1	76-145/30
10061-01-5	cis-1,3-Dichloropropene	ND	50	54.6	109	50	56.1	112	3	75-137/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37814-6MS	U27689.D	1	04/15/15	GK	n/a	n/a	MSU1155
MC37814-6MSD	U27690.D	1	04/15/15	GK	n/a	n/a	MSU1155
MC37814-6	U27681.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Compound	MC37814-6 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	50	52.8	106	50	54.8	110	4	77-139/30
100-41-4	Ethylbenzene	ND	50	48.7	97	50	48.1	96	1	61-137/30
87-68-3	Hexachlorobutadiene	ND	50	51.5	103	50	53.0	106	3	59-141/30
591-78-6	2-Hexanone	ND	50	35.3	71	50	38.6	77	9	12-141/30
74-88-4	Iodomethane	ND	50	51.8	104	50	49.9	100	4	21-171/30
98-82-8	Isopropylbenzene	ND	50	51.9	104	50	50.6	101	3	64-141/30
99-87-6	p-Isopropyltoluene	ND	50	51.5	103	50	51.1	102	1	73-135/30
1634-04-4	Methyl Tert Butyl Ether	ND	50	47.8	96	50	46.9	94	2	34-160/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	48.0	96	50	52.0	104	8	47-143/30
74-95-3	Methylene bromide	ND	50	45.8	92	50	45.5	91	1	73-132/30
75-09-2	Methylene chloride	ND	50	47.3	95	50	46.8	94	1	52-154/30
91-20-3	Naphthalene	ND	50	49.2	98	50	51.2	102	4	21-185/30
103-65-1	n-Propylbenzene	ND	50	49.9	100	50	48.8	98	2	66-141/30
100-42-5	Styrene	ND	50	45.4	91	50	45.7	91	1	60-142/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	49.6	99	50	47.4	95	5	69-138/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	54.1	108	50	54.7	109	1	58-147/30
127-18-4	Tetrachloroethene	ND	50	51.2	102	50	49.9	100	3	60-140/30
108-88-3	Toluene	ND	50	51.3	103	50	51.7	103	1	74-131/30
87-61-6	1,2,3-Trichlorobenzene	ND	50	51.7	103	50	53.9	108	4	12-184/30
120-82-1	1,2,4-Trichlorobenzene	ND	50	49.6	99	50	50.8	102	2	30-175/30
71-55-6	1,1,1-Trichloroethane	ND	50	47.4	95	50	44.8	90	6	67-151/30
79-00-5	1,1,2-Trichloroethane	ND	50	51.6	103	50	53.5	107	4	73-134/30
79-01-6	Trichloroethene	ND	50	49.6	99	50	49.1	98	1	68-133/30
75-69-4	Trichlorofluoromethane	ND	50	46.3	93	50	44.7	89	4	40-159/30
96-18-4	1,2,3-Trichloropropane	ND	50	53.0	106	50	54.6	109	3	54-141/30
95-63-6	1,2,4-Trimethylbenzene	ND	50	50.4	101	50	49.9	100	1	62-142/30
108-67-8	1,3,5-Trimethylbenzene	ND	50	54.4	109	50	53.2	106	2	62-133/30
108-05-4	Vinyl Acetate	ND	50	65.1	130	50	64.5	129	1	10-169/30
75-01-4	Vinyl chloride	ND	50	46.3	93	50	44.1	88	5	29-176/30
	m,p-Xylene	ND	100	98.1	98	100	96.7	97	1	58-139/30
95-47-6	o-Xylene	ND	50	47.7	95	50	46.9	94	2	61-135/30
1330-20-7	Xylene (total)	ND	150	146	97	150	144	96	1	60-136/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37814-6MS	U27689.D	1	04/15/15	GK	n/a	n/a	MSU1155
MC37814-6MSD	U27690.D	1	04/15/15	GK	n/a	n/a	MSU1155
MC37814-6	U27681.D	1	04/15/15	GK	n/a	n/a	MSU1155

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-13, MC37790-14, MC37790-19, MC37790-20

CAS No.	Surrogate Recoveries	MS	MSD	MC37814-6	Limits
1868-53-7	Dibromofluoromethane	96%	94%	89%	72-133%
2037-26-5	Toluene-D8	100%	102%	96%	85-114%
460-00-4	4-Bromofluorobenzene	105%	105%	100%	70-134%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC37790-3MS	V38105.D	5	04/15/15	KD	n/a	n/a	MSV1372
MC37790-3MSD	V38106.D	5	04/15/15	KD	n/a	n/a	MSV1372
MC37790-3	V38088.D	1	04/15/15	KD	n/a	n/a	MSV1372

The QC reported here applies to the following samples:

Method: SW846 8260C

MC37790-1, MC37790-3, MC37790-17

CAS No.	Compound	MC37790-3 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	250	243	97	250	243	97	0	61-138/30
100-41-4	Ethylbenzene	ND	250	251	100	250	252	101	0	61-137/30
1634-04-4	Methyl Tert Butyl Ether	44.2	250	327	113	250	307	105	6	34-160/30
91-20-3	Naphthalene	ND	250	190	76	250	184	74	3	21-185/30
108-88-3	Toluene	ND	250	261	104	250	255	102	2	74-131/30
95-63-6	1,2,4-Trimethylbenzene	ND	250	255	102	250	256	102	0	62-142/30
108-67-8	1,3,5-Trimethylbenzene	ND	250	248	99	250	252	101	2	62-133/30
1330-20-7	Xylene (total)	ND	750	731	97	750	744	99	2	60-136/30

CAS No.	Surrogate Recoveries	MS	MSD	MC37790-3	Limits
1868-53-7	Dibromofluoromethane	110%	108%	119%	72-133%
2037-26-5	Toluene-D8	107%	104%	102%	85-114%
460-00-4	4-Bromofluorobenzene	102%	104%	101%	70-134%

\* = Outside of Control Limits.

# Volatile Surrogate Recovery Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

**Method:** SW846 8260C

**Matrix:** AQ

**Samples and QC shown here apply to the above method**

Lab Sample ID	Lab File ID	S1	S2	S3
MC37790-1	V38087.D	116	105	100
MC37790-2	V38070.D	114	104	102
MC37790-3	V38088.D	119	102	101
MC37790-4	V38053.D	108	101	101
MC37790-5	V38055.D	109	101	105
MC37790-6	V38054.D	109	104	101
MC37790-7	V38052.D	105	103	100
MC37790-8	U27658.D	92	97	101
MC37790-9	U27659.D	93	96	101
MC37790-10	U27666.D	96	96	98
MC37790-11	U27660.D	93	96	101
MC37790-12	U27661.D	95	96	100
MC37790-13	U27680.D	101	97	94
MC37790-14	U27695.D	91	95	97
MC37790-15	V38074.D	109	102	99
MC37790-16	V38076.D	109	101	101
MC37790-17	V38090.D	109	102	102
MC37790-17	V38071.D	105	100	104
MC37790-18	V38075.D	108	104	101
MC37790-19	U27698.D	94	99	100
MC37790-20	U27696.D	98	97	98
MC37761-1MS	U27663.D	92	101	106
MC37761-1MSD	U27664.D	93	101	105
MC37790-3MS	V38105.D	110	107	102
MC37790-3MSD	V38106.D	108	104	104
MC37814-6MS	U27689.D	96	100	105
MC37814-6MSD	U27690.D	94	102	105
MC37839-1MS	V38077.D	106	105	102
MC37839-1MSD	V38078.D	106	107	101
MC37854-15MS	V38040.D	102	103	101
MC37854-15MSD	V38041.D	101	103	102
MSU1154-BS	U27648.D	98	100	103
MSU1154-MB	U27651.D	98	97	96
MSU1155-BS	U27676.D	100	103	104
MSU1155-MB	U27679.D	99	95	96
MSV1370-BS	V38031.D	100	103	102
MSV1370-BSD	V38032.D	100	101	102
MSV1370-MB	V38034.D	100	101	100
MSV1371-BS	V38060.D	106	104	101
MSV1371-MB	V38063.D	109	102	100



# Volatile Surrogate Recovery Summary

**Job Number:** MC37790

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

**Method:** SW846 8260C

**Matrix:** AQ

**Samples and QC shown here apply to the above method**

Lab Sample ID	Lab File ID	S1	S2	S3
MSV1372-BS	V38082.D	106	104	104
MSV1372-BSD	V38083.D	105	105	104
MSV1372-MB	V38085.D	112	102	100

**Surrogate Compounds**                      **Recovery Limits**

<b>S1</b> = Dibromofluoromethane	72-133%
<b>S2</b> = Toluene-D8	85-114%
<b>S3</b> = 4-Bromofluorobenzene	70-134%

6.5.1

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Technical Report for

Tyco International

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
493

Accutest Job Number: MC38573

Sampling Dates: 05/06/15 - 05/07/15

Report to:

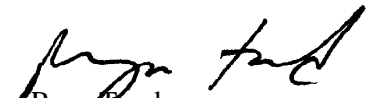
O&M, Inc.  
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ATTN: Eric Frauen

Total number of pages in report: **21**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand  
Lab Director

Client Service contact: Matthew Morrell 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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## Sample Summary

Tyco International

**Job No:** MC38573

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC38573-1	05/06/15	15:15 CF	05/09/15	AQ	Ground Water	PZ-18
MC38573-2	05/06/15	13:55 CF	05/09/15	AQ	Ground Water	PZ-19
MC38573-3	05/07/15	10:25 CF	05/09/15	AQ	Ground Water	PZ-20
MC38573-4	05/06/15	17:20 CF	05/09/15	AQ	Ground Water	PZ-21
MC38573-5	05/06/15	16:20 CF	05/09/15	AQ	Ground Water	PZ-3



## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Tyco International

**Job No** MC38573

**Site:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marin

**Report Date** 5/22/2015 8:11:46 AM

5 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 05/06/2015 and 05/07/2015 and were received at Accutest on 05/09/2015 properly preserved, at 1.2 Deg. C and intact. These Samples received an Accutest job number of MC38573. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Volatiles by GCMS By Method SW846 8260C

**Matrix:** AQ

**Batch ID:** MSL4063

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- MC38573-1, 2: Elevated RL due to sample matrix.

**Matrix:** AQ

**Batch ID:** MSV1415

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC38531-8MS, MC38531-8MSD were used as the QC samples indicated.
- MC38573-5: Elevated RL due to sample matrix.
- MC38573-4: Elevated RL due to sample matrix. The pH of the VOA aliquot was >2 at the time of analysis.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC38573).

## Summary of Hits

**Job Number:** MC38573  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 05/06/15 thru 05/07/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>MC38573-1</b>	<b>PZ-18</b>					
Benzene <sup>a</sup>		44.8	5.0	2.7	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>a</sup>		333	10	3.5	ug/l	SW846 8260C
<b>MC38573-2</b>	<b>PZ-19</b>					
Benzene <sup>a</sup>		114	5.0	2.7	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>a</sup>		29.9	10	3.5	ug/l	SW846 8260C
<b>MC38573-3</b>	<b>PZ-20</b>					
Benzene		120	0.50	0.27	ug/l	SW846 8260C
Toluene		0.36 J	1.0	0.29	ug/l	SW846 8260C
Ethylbenzene		1.8	1.0	0.24	ug/l	SW846 8260C
Xylene (total)		1.6	1.0	0.22	ug/l	SW846 8260C
Methyl Tert Butyl Ether		301	1.0	0.35	ug/l	SW846 8260C
<b>MC38573-4</b>	<b>PZ-21</b>					
Benzene <sup>b</sup>		254	5.0	2.7	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>b</sup>		154	10	3.5	ug/l	SW846 8260C
<b>MC38573-5</b>	<b>PZ-3</b>					
Benzene <sup>a</sup>		50.2	5.0	2.7	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>a</sup>		568	10	3.5	ug/l	SW846 8260C

(a) Elevated RL due to sample matrix.

(b) Elevated RL due to sample matrix. The pH of the VOA aliquot was > 2 at the time of analysis.

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> PZ-18		
<b>Lab Sample ID:</b> MC38573-1		<b>Date Sampled:</b> 05/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 05/09/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	L92252.D	10	05/20/15	JM	n/a	n/a	MSL4063
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	44.8	5.0	2.7	ug/l	
108-88-3	Toluene	ND	10	2.9	ug/l	
100-41-4	Ethylbenzene	ND	10	2.4	ug/l	
1330-20-7	Xylene (total)	ND	10	2.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	333	10	3.5	ug/l	
91-20-3	Naphthalene	ND	50	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	2.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		72-133%
2037-26-5	Toluene-D8	105%		85-114%
460-00-4	4-Bromofluorobenzene	101%		70-134%

(a) Elevated RL due to sample matrix.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> PZ-19		<b>Date Sampled:</b> 05/06/15
<b>Lab Sample ID:</b> MC38573-2		<b>Date Received:</b> 05/09/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	L92253.D	10	05/20/15	JM	n/a	n/a	MSL4063
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	114	5.0	2.7	ug/l	
108-88-3	Toluene	ND	10	2.9	ug/l	
100-41-4	Ethylbenzene	ND	10	2.4	ug/l	
1330-20-7	Xylene (total)	ND	10	2.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	29.9	10	3.5	ug/l	
91-20-3	Naphthalene	ND	50	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	2.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		72-133%
2037-26-5	Toluene-D8	106%		85-114%
460-00-4	4-Bromofluorobenzene	99%		70-134%

(a) Elevated RL due to sample matrix.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.2  
 4

# Report of Analysis

<b>Client Sample ID:</b> PZ-20		
<b>Lab Sample ID:</b> MC38573-3		<b>Date Sampled:</b> 05/07/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 05/09/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V39307.D	1	05/20/15	KD	n/a	n/a	MSV1415
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	120	0.50	0.27	ug/l	
108-88-3	Toluene	0.36	1.0	0.29	ug/l	J
100-41-4	Ethylbenzene	1.8	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	1.6	1.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	301	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		72-133%
2037-26-5	Toluene-D8	96%		85-114%
460-00-4	4-Bromofluorobenzene	99%		70-134%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.3  
 4

# Report of Analysis

<b>Client Sample ID:</b> PZ-21		
<b>Lab Sample ID:</b> MC38573-4		<b>Date Sampled:</b> 05/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 05/09/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	V39293.D	10	05/20/15	KD	n/a	n/a	MSV1415
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	254	5.0	2.7	ug/l	
108-88-3	Toluene	ND	10	2.9	ug/l	
100-41-4	Ethylbenzene	ND	10	2.4	ug/l	
1330-20-7	Xylene (total)	ND	10	2.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	154	10	3.5	ug/l	
91-20-3	Naphthalene	ND	50	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	2.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-133%
2037-26-5	Toluene-D8	98%		85-114%
460-00-4	4-Bromofluorobenzene	100%		70-134%

(a) Elevated RL due to sample matrix. The pH of the VOA aliquot was > 2 at the time of analysis.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.4  
4

# Report of Analysis

<b>Client Sample ID:</b> PZ-3		
<b>Lab Sample ID:</b> MC38573-5		<b>Date Sampled:</b> 05/06/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 05/09/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	V39292.D	10	05/20/15	KD	n/a	n/a	MSV1415
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	50.2	5.0	2.7	ug/l	
108-88-3	Toluene	ND	10	2.9	ug/l	
100-41-4	Ethylbenzene	ND	10	2.4	ug/l	
1330-20-7	Xylene (total)	ND	10	2.2	ug/l	
1634-04-4	Methyl Tert Butyl Ether	568	10	3.5	ug/l	
91-20-3	Naphthalene	ND	50	20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	2.9	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	50	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-133%
2037-26-5	Toluene-D8	97%		85-114%
460-00-4	4-Bromofluorobenzene	102%		70-134%

(a) Elevated RL due to sample matrix.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.5  
**4**

## Misc. Forms

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5

## Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** MC38573      **Client:** O&M      **Project:** FTC MARINETTE  
**Date / Time Received:** 5/9/2015 10:00:00 AM      **Delivery Method:** \_\_\_\_\_      **Airbill #'s:** \_\_\_\_\_  
**Cooler Temps (Initial/Adjusted):** #1: (1.2/1.2);

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Thermometer ID:	G1;	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

5.1  
5

## GC/MS Volatiles

---

### QC Data Summaries

---

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries



## Method Blank Summary

**Job Number:** MC38573

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4063-MB	L92233.D	1	05/20/15	JM	n/a	n/a	MSL4063

The QC reported here applies to the following samples:

Method: SW846 8260C

MC38573-1, MC38573-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	109% 72-133%
2037-26-5	Toluene-D8	102% 85-114%
460-00-4	4-Bromofluorobenzene	102% 70-134%

# Method Blank Summary

**Job Number:** MC38573

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1415-MB	V39289.D	1	05/20/15	KD	n/a	n/a	MSV1415

The QC reported here applies to the following samples:

Method: SW846 8260C

MC38573-3, MC38573-4, MC38573-5

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	107% 72-133%
2037-26-5	Toluene-D8	99% 85-114%
460-00-4	4-Bromofluorobenzene	101% 70-134%

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC38573

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4063-BS	L92230.D	1	05/20/15	JM	n/a	n/a	MSL4063
MSL4063-BSD	L92231.D	1	05/20/15	JM	n/a	n/a	MSL4063

The QC reported here applies to the following samples:

Method: SW846 8260C

MC38573-1, MC38573-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	47.8	96	47.5	95	1	68-127/25
100-41-4	Ethylbenzene	50	49.2	98	48.7	97	1	71-129/25
1634-04-4	Methyl Tert Butyl Ether	50	58.3	117	60.9	122	4	46-151/25
91-20-3	Naphthalene	50	44.9	90	46.4	93	3	39-176/25
108-88-3	Toluene	50	51.8	104	51.8	104	0	75-126/25
95-63-6	1,2,4-Trimethylbenzene	50	48.5	97	48.9	98	1	76-129/25
108-67-8	1,3,5-Trimethylbenzene	50	49.8	100	49.7	99	0	71-127/25
1330-20-7	Xylene (total)	150	150	100	149	99	1	67-129/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	105%	105%	72-133%
2037-26-5	Toluene-D8	105%	106%	85-114%
460-00-4	4-Bromofluorobenzene	96%	96%	70-134%

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC38573

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1415-BS	V39286.D	1	05/20/15	KD	n/a	n/a	MSV1415
MSV1415-BSD	V39287.D	1	05/20/15	KD	n/a	n/a	MSV1415

The QC reported here applies to the following samples:

Method: SW846 8260C

MC38573-3, MC38573-4, MC38573-5

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	47.0	94	47.0	94	0	68-127/25
100-41-4	Ethylbenzene	50	52.3	105	51.5	103	2	71-129/25
1634-04-4	Methyl Tert Butyl Ether	50	50.5	101	49.0	98	3	46-151/25
91-20-3	Naphthalene	50	45.5	91	44.0	88	3	39-176/25
108-88-3	Toluene	50	47.7	95	47.2	94	1	75-126/25
95-63-6	1,2,4-Trimethylbenzene	50	53.3	107	52.7	105	1	76-129/25
108-67-8	1,3,5-Trimethylbenzene	50	55.2	110	56.0	112	1	71-127/25
1330-20-7	Xylene (total)	150	159	106	156	104	2	67-129/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	94%	72-133%
2037-26-5	Toluene-D8	102%	100%	85-114%
460-00-4	4-Bromofluorobenzene	101%	101%	70-134%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC38573

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC38531-8MS	V39308.D	1	05/20/15	KD	n/a	n/a	MSV1415
MC38531-8MSD	V39309.D	1	05/20/15	KD	n/a	n/a	MSV1415
MC38531-8	V39300.D	1	05/20/15	KD	n/a	n/a	MSV1415

The QC reported here applies to the following samples:

Method: SW846 8260C

MC38573-3, MC38573-4, MC38573-5

CAS No.	Compound	MC38531-8 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	49.4	99	50	50.4	101	2	61-138/30
100-41-4	Ethylbenzene	ND	50	54.5	109	50	55.3	111	1	61-137/30
1634-04-4	Methyl Tert Butyl Ether	ND	50	47.7	95	50	50.7	101	6	34-160/30
91-20-3	Naphthalene	ND	50	47.2	94	50	48.6	97	3	21-185/30
108-88-3	Toluene	0.33	50	51.0	101	50	51.1	102	0	74-131/30
95-63-6	1,2,4-Trimethylbenzene	ND	50	54.2	108	50	54.8	110	1	62-142/30
108-67-8	1,3,5-Trimethylbenzene	ND	50	56.6	113	50	57.8	116	2	62-133/30
1330-20-7	Xylene (total)	ND	150	164	109	150	168	112	2	60-136/30

CAS No.	Surrogate Recoveries	MS	MSD	MC38531-8	Limits
1868-53-7	Dibromofluoromethane	96%	96%	116%	72-133%
2037-26-5	Toluene-D8	102%	101%	101%	85-114%
460-00-4	4-Bromofluorobenzene	101%	101%	100%	70-134%

\* = Outside of Control Limits.

# Volatile Surrogate Recovery Summary

**Job Number:** MC38573

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

**Method:** SW846 8260C

**Matrix:** AQ

**Samples and QC shown here apply to the above method**

Lab Sample ID	Lab File ID	S1	S2	S3
MC38573-1	L92252.D	115	105	101
MC38573-2	L92253.D	115	106	99
MC38573-3	V39307.D	105	96	99
MC38573-4	V39293.D	109	98	100
MC38573-5	V39292.D	109	97	102
MC38531-8MS	V39308.D	96	102	101
MC38531-8MSD	V39309.D	96	101	101
MSL4063-BS	L92230.D	105	105	96
MSL4063-BSD	L92231.D	105	106	96
MSL4063-MB	L92233.D	109	102	102
MSV1415-BS	V39286.D	98	102	101
MSV1415-BSD	V39287.D	94	100	101
MSV1415-MB	V39289.D	107	99	101

### Surrogate Compounds

### Recovery Limits

**S1** = Dibromofluoromethane  
**S2** = Toluene-D8  
**S3** = 4-Bromofluorobenzene

72-133%  
85-114%  
70-134%

Technical Report for

Tyco International

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
493

Accutest Job Number: MC39187

Sampling Date: 06/05/15

Report to:

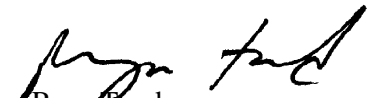
O&M, Inc.  
450 Montbrook Lane  
Knoxville, TN 37919-2705  
etfrauen@hotmail.com

ATTN: Eric Frauen

Total number of pages in report: **16**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Pand  
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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## Sample Summary

Tyco International

**Job No:** MC39187

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC39187-1	06/05/15	15:00 CF	06/09/15	AQ	Ground Water	PZ-22S
MC39187-2	06/05/15	15:25 CF	06/09/15	AQ	Ground Water	PZ-22D
MC39187-3	06/05/15	15:55 CF	06/09/15	AQ	Ground Water	PZ-18S



## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Tyco International

**Job No** MC39187

**Site:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marin

**Report Date** 6/16/2015 11:32:38 AM

3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 06/05/2015 and were received at Accutest on 06/09/2015 properly preserved, at 1.7 Deg. C and intact. These Samples received an Accutest job number of MC39187. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Volatiles by GCMS By Method SW846 8260C

<b>Matrix:</b> AQ	<b>Batch ID:</b> MSV1442
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- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC39187).

## Summary of Hits

**Job Number:** MC39187  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 06/05/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**MC39187-1 PZ-22S**

No hits reported in this sample.

**MC39187-2 PZ-22D**

Benzene	12.9	2.5	1.4	ug/l	SW846 8260C
Methyl Tert Butyl Ether	257	5.0	1.7	ug/l	SW846 8260C

**MC39187-3 PZ-18S**

No hits reported in this sample.

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> PZ-22S		<b>Date Sampled:</b> 06/05/15
<b>Lab Sample ID:</b> MC39187-1		<b>Date Received:</b> 06/09/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V39997.D	5	06/12/15	JB	n/a	n/a	MSV1442
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

**Aromatic Volatiles**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	ND	5.0	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	25	3.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		72-133%
2037-26-5	Toluene-D8	98%		85-114%
460-00-4	4-Bromofluorobenzene	104%		70-134%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
4

## Report of Analysis

<b>Client Sample ID:</b> PZ-22D		
<b>Lab Sample ID:</b> MC39187-2		<b>Date Sampled:</b> 06/05/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 06/09/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V39998.D	5	06/12/15	JB	n/a	n/a	MSV1442
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	12.9	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	ND	5.0	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	257	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	25	3.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		72-133%
2037-26-5	Toluene-D8	98%		85-114%
460-00-4	4-Bromofluorobenzene	104%		70-134%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-18S		<b>Date Sampled:</b> 06/05/15
<b>Lab Sample ID:</b> MC39187-3		<b>Date Received:</b> 06/09/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V39999.D	5	06/12/15	JB	n/a	n/a	MSV1442
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	ND	5.0	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	25	3.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		72-133%
2037-26-5	Toluene-D8	98%		85-114%
460-00-4	4-Bromofluorobenzene	105%		70-134%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.3  
4

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # <b>MC 39187</b>

Client / Reporting Information		Project Information				Requested Analysis ( see TEST CODE sheet)												Matrix Codes				
Company Name <b>O+M, Inc.</b>		Project Name <b>Marinette FTC</b>																DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SD - Soil SL - Sludge SED - Sediment OI - Oil LIO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank				
Street Address <b>4830 N. Berkeley Blvd</b>		Street <b>2700 Industrial PKWYS</b>																				
City, State, Zip <b>W. Fish Bay, WI, 53217</b>		Billing Information ( If different from Report to) Company Name <b>O+M, Inc</b>																				
Project Contact <b>Eric Frauen etfrauen@ohm.com</b>		Street Address <b>450 Montbrook Lane</b>																				
Phone # <b>(414) 963-6210</b>		City, State, Zip <b>Marinette WI 54951</b>																				
E-mail <b>etfrauen@ohm.com</b>		Project # <b>493</b>																				
Sampler(s) Name(s) <b>Chris Frauen (914) 435-8235</b>		Client PO#																				
Phone #		Project Manager <b>Eric Frauen</b>																				
Fax #		Attention: <b>Lori Sillinger</b>																				
MEQH/VDI Vial #		Collection																				
Field ID / Point of Collection		Date		Time		Sampled by		Matrix		# of bottles		Number of pres-iso Bottles										LAB USE ONLY
1 PZ-22 S		6/5/15		15:00		CF W		3		X												4A2
2 PZ-22 D		↓		15:25		↓		↓		↓												
3 PZ-18 S		↓		15:55		↓		↓		↓												

Turnaround Time ( Business Days)		Approved By (Accutest PM): / Date:		Data Deliverable Information				Comments / Special Instructions			
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input checked="" type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency &amp; Rush T/A data available VIA Lablink</small>				<input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary</small>							

Sample Custody must be documented below each time samples change possession, including courier delivery.				CHICAGO SC			
Retinquished by Sampler: <i>[Signature]</i>	Date/Time: <b>6/8/15 10:30</b>	Received By:		Retinquished By: <b>FX</b>	Date Time: <b>7:30</b>	Received By: <i>[Signature]</i>	
Retinquished by Sampler:	Date Time:	Received By:		Retinquished By:	Date Time:	Received By:	
3		3		4		4	
Retinquished by:	Date Time:	Received By:		Custody Seal #	<input type="checkbox"/> Intact    Preserved where applicable <input type="checkbox"/> Not intact <input type="checkbox"/>	On Ice	Cooler Temp. <b>1.70C</b>
5		5					

**MC39187: Chain of Custody**

**Page 1 of 2**

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5

## Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC39187      Client: O&M      Project: MARINETTE

Date / Time Received: 6/9/2015 9:30:00 AM      Delivery Method: \_\_\_\_\_      Airbill #'s: \_\_\_\_\_

Cooler Temps (Initial/Adjusted): #1: (1.7/1.7):

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Thermometer ID:	<u>G1;</u>	
3. Cooler media:	<u>Ice (Bag)</u>	
4. No. Coolers:	<u>1</u>	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>	

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

5.1  
5

## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

## Method Blank Summary

**Job Number:** MC39187

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1442-MB	V39979.D	1	06/12/15	JB	n/a	n/a	MSV1442

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39187-1, MC39187-2, MC39187-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	109% 72-133%
2037-26-5	Toluene-D8	96% 85-114%
460-00-4	4-Bromofluorobenzene	101% 70-134%

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC39187

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1442-BS	V39975.D	1	06/12/15	JB	n/a	n/a	MSV1442
MSV1442-BSD	V39976.D	1	06/12/15	JB	n/a	n/a	MSV1442

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39187-1, MC39187-2, MC39187-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	50.4	101	51.0	102	1	68-127/25
100-41-4	Ethylbenzene	50	52.3	105	51.8	104	1	71-129/25
1634-04-4	Methyl Tert Butyl Ether	50	48.7	97	53.6	107	10	46-151/25
91-20-3	Naphthalene	50	51.3	103	54.0	108	5	39-176/25
108-88-3	Toluene	50	52.7	105	53.7	107	2	75-126/25
95-63-6	1,2,4-Trimethylbenzene	50	53.4	107	52.3	105	2	76-129/25
108-67-8	1,3,5-Trimethylbenzene	50	55.1	110	54.5	109	1	71-127/25
1330-20-7	Xylene (total)	150	153	102	151	101	1	67-129/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	109%	109%	72-133%
2037-26-5	Toluene-D8	103%	103%	85-114%
460-00-4	4-Bromofluorobenzene	101%	102%	70-134%

\* = Outside of Control Limits.

# Volatile Surrogate Recovery Summary

**Job Number:** MC39187

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

**Method:** SW846 8260C

**Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC39187-1	V39997.D	117	98	104
MC39187-2	V39998.D	116	98	104
MC39187-3	V39999.D	117	98	105
MSV1442-BS	V39975.D	109	103	101
MSV1442-BSD	V39976.D	109	103	102
MSV1442-MB	V39979.D	109	96	101

### Surrogate Compounds

### Recovery Limits

S1 = Dibromofluoromethane	72-133%
S2 = Toluene-D8	85-114%
S3 = 4-Bromofluorobenzene	70-134%

Technical Report for

Tyco International

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
493

Accutest Job Number: MC39709

Sampling Date: 06/26/15

Report to:

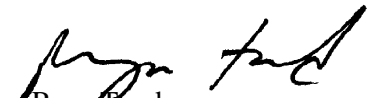
O&M, Inc.  
450 Montbrook Lane  
Knoxville, TN 37919-2705  
etfrauen@hotmail.com

ATTN: Eric Frauen

Total number of pages in report: **48**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Pand  
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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## Sample Summary

Tyco International

**Job No:** MC39709

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC39709-1	06/26/15	10:15 CF	06/27/15	AQ	Ground Water	PZ-15D
MC39709-2	06/26/15	10:55 CF	06/27/15	AQ	Ground Water	PZ-6S
MC39709-3	06/26/15	11:15 CF	06/27/15	AQ	Ground Water	PZ-17D
MC39709-4	06/26/15	11:40 CF	06/27/15	AQ	Ground Water	PZ-17S
MC39709-5	06/26/15	12:15 CF	06/27/15	AQ	Ground Water	PZ-16D
MC39709-6	06/26/15	12:40 CF	06/27/15	AQ	Ground Water	PZ-2
MC39709-7	06/26/15	13:25 CF	06/27/15	AQ	Ground Water	PZ-14S
MC39709-8	06/26/15	13:40 CF	06/27/15	AQ	Ground Water	PZ-14D



## SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Tyco International

**Job No** MC39709

**Site:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marin

**Report Date** 7/20/2015 8:32:02 AM

8 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 06/26/2015 and were received at Accutest on 06/27/2015 properly preserved, at 1.7 Deg. C and intact. These Samples received an Accutest job number of MC39709. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

### Volatiles by GCMS By Method SW846 8260C

<b>Matrix:</b> AQ	<b>Batch ID:</b> MSG5418
-------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

<b>Matrix:</b> AQ	<b>Batch ID:</b> MSV1474
-------------------	--------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC39709).

## Summary of Hits

**Job Number:** MC39709  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 06/26/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**MC39709-1 PZ-15D**

No hits reported in this sample.

**MC39709-2 PZ-6S**

No hits reported in this sample.

**MC39709-3 PZ-17D**

Benzene	0.37 J	0.50	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene	1.5	1.0	0.31	ug/l	SW846 8260C
Trichloroethene	14.0	1.0	0.25	ug/l	SW846 8260C

**MC39709-4 PZ-17S**

No hits reported in this sample.

**MC39709-5 PZ-16D**

Benzene	0.77	0.50	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene	0.53 J	1.0	0.31	ug/l	SW846 8260C
Trichloroethene	1.4	1.0	0.25	ug/l	SW846 8260C

**MC39709-6 PZ-2**

Benzene	1.1	0.50	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene	4.4	1.0	0.31	ug/l	SW846 8260C
Trichloroethene	10.1	1.0	0.25	ug/l	SW846 8260C

**MC39709-7 PZ-14S**

Benzene	0.45 J	0.50	0.27	ug/l	SW846 8260C
n-Butylbenzene	1.5 J	5.0	0.50	ug/l	SW846 8260C
Ethylbenzene	3.6	1.0	0.24	ug/l	SW846 8260C
Isopropylbenzene	0.45 J	5.0	0.27	ug/l	SW846 8260C
p-Isopropyltoluene	0.43 J	5.0	0.32	ug/l	SW846 8260C
Naphthalene	22.8	5.0	0.61	ug/l	SW846 8260C
n-Propylbenzene	1.4 J	5.0	0.29	ug/l	SW846 8260C
Toluene	2.6	1.0	0.29	ug/l	SW846 8260C
1,2,4-Trimethylbenzene	24.8	5.0	0.29	ug/l	SW846 8260C
1,3,5-Trimethylbenzene	6.3	5.0	0.20	ug/l	SW846 8260C
m,p-Xylene	20.9	1.0	0.47	ug/l	SW846 8260C
o-Xylene	13.2	1.0	0.22	ug/l	SW846 8260C
Xylene (total)	34.1	1.0	0.22	ug/l	SW846 8260C

## Summary of Hits

**Job Number:** MC39709  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 06/26/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**MC39709-8      PZ-14D**

Ethylbenzene	0.55 J	1.0	0.24	ug/l	SW846 8260C
1,2,4-Trimethylbenzene	0.59 J	5.0	0.29	ug/l	SW846 8260C
m,p-Xylene	0.54 J	1.0	0.47	ug/l	SW846 8260C
o-Xylene	0.70 J	1.0	0.22	ug/l	SW846 8260C
Xylene (total)	1.2	1.0	0.22	ug/l	SW846 8260C

Sample Results

---

Report of Analysis

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# Report of Analysis

<b>Client Sample ID:</b> PZ-15D		
<b>Lab Sample ID:</b> MC39709-1		<b>Date Sampled:</b> 06/26/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 06/27/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G144600.D	1	07/10/15	MC	n/a	n/a	MSG5418
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.1  
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## Report of Analysis

<b>Client Sample ID:</b> PZ-15D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-1		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-15D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-1		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	97%		85-114%
460-00-4	4-Bromofluorobenzene	112%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> PZ-6S		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-2		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	V40878.D	1	07/10/15	JB	n/a	n/a	MSV1474

Run #1	Purge Volume
Run #2	5.0 ml

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-6S	<b>Date Sampled:</b>	06/26/15
<b>Lab Sample ID:</b>	MC39709-2	<b>Date Received:</b>	06/27/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-6S		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-2		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	87%		85-114%
460-00-4	4-Bromofluorobenzene	91%		70-134%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-17D		
<b>Lab Sample ID:</b> MC39709-3		<b>Date Sampled:</b> 06/26/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 06/27/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V40879.D	1	07/10/15	JB	n/a	n/a	MSV1474
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.37	0.50	0.27	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	1.5	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.3  
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## Report of Analysis

<b>Client Sample ID:</b> PZ-17D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-3		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	14.0	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-3		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		85-114%
460-00-4	4-Bromofluorobenzene	90%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

4.3  
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## Report of Analysis

<b>Client Sample ID:</b> PZ-17S		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-4		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V40880.D	1	07/10/15	JB	n/a	n/a	MSV1474
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17S		
<b>Lab Sample ID:</b> MC39709-4		<b>Date Sampled:</b> 06/26/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 06/27/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> PZ-17S		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-4		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		85-114%
460-00-4	4-Bromofluorobenzene	90%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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# Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-5		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V40881.D	1	07/10/15	JB	n/a	n/a	MSV1474
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.77	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.53	1.0	0.31	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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# Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-5		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	1.4	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-133%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-5		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		85-114%
460-00-4	4-Bromofluorobenzene	89%		70-134%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-2		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-6		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V40882.D	1	07/10/15	JB	n/a	n/a	MSV1474
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	1.1	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.4	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-2	<b>Date Sampled:</b>	06/26/15
<b>Lab Sample ID:</b>	MC39709-6	<b>Date Received:</b>	06/27/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	10.1	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-2		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-6		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		85-114%
460-00-4	4-Bromofluorobenzene	90%		70-134%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-7		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	G144601.D	1	07/10/15	MC	n/a	n/a	MSG5418

Run #1	Purge Volume
Run #2	5.0 ml

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.45	0.50	0.27	ug/l	J
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	1.5	5.0	0.50	ug/l	J
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-7		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	3.6	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	0.45	5.0	0.27	ug/l	J
99-87-6	p-Isopropyltoluene	0.43	5.0	0.32	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	22.8	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	1.4	5.0	0.29	ug/l	J
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	2.6	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	24.8	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	6.3	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	20.9	1.0	0.47	ug/l	
95-47-6	o-Xylene	13.2	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	34.1	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		72-133%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-7		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		85-114%
460-00-4	4-Bromofluorobenzene	100%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> PZ-14D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-8		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V40883.D	1	07/10/15	JB	n/a	n/a	MSV1474
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-14D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-8		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	0.55	1.0	0.24	ug/l	J
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.59	5.0	0.29	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	0.54	1.0	0.47	ug/l	J
95-47-6	o-Xylene	0.70	1.0	0.22	ug/l	J
1330-20-7	Xylene (total)	1.2	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		72-133%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-14D		<b>Date Sampled:</b> 06/26/15
<b>Lab Sample ID:</b> MC39709-8		<b>Date Received:</b> 06/27/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	88%		85-114%
460-00-4	4-Bromofluorobenzene	89%		70-134%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

FED-EX Tracking # \_\_\_\_\_  
Accutest Quote # \_\_\_\_\_  
Matrix Order Control # **MC39709**  
Accutest Job # \_\_\_\_\_

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)										Matrix Codes				
Company Name <b>OTM, Inc</b>		Project Name <b>FTC Mannette</b>		<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">                     Billing Information (If different from Report to)                      Company Name: <b>OTM, Inc</b>                      Street Address: <b>450 Mountbroke Ln</b>                      City: <b>Knoxville TN</b> State: <b>TN</b> Zip: <b>37919</b> </div> <div style="width: 45%; text-align: right;">                     VOC                      W                 </div> </div>										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank				
Street Address <b>4830 N. Berkeley Blvd</b>		Signed <b>Eric Frauen</b>																
City, State, Zip <b>Whitefish Bay, WI 53217</b>		Client PO# <b>493</b>																
Project Contact <b>Eric Frauen</b> E-mail: <b>erfrauen@otm.com</b>		Project Manager <b>Eric Frauen</b>																
Phone # <b>(414) 963-6210</b>		Attention: <b>Lori Sillinger</b>																
Sampler(s) Name(s) <b>Chris Frauen</b> Phone # <b>(414) 435-8285</b>		Project Manager <b>Eric Frauen</b>																
Accutest Sample #	Field ID / Point of Collection	MECHID: Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NH <sub>4</sub> OH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NONE	DI Water	MECH	EMCORE	Blank/Seal	LAB USE ONLY	
-1	PZ-15 D		6/26/15	10:15	ct	W	3	X										
-2	PZ-6S			10:55														
-3	PZ-17 D			11:15														
-4	PZ-17S			11:40														
-5	PZ-16 D			12:15														
-6	PZ-2			12:40														
-7	PZ-14S			13:25														
-8	PZ-14 D			13:40														

Turnaround Time (Business days)		Approved By (Accutest PM): / Date:		Data Deliverable Information				Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <small>Emergency &amp; Rush TIA data available VIA Lablink</small>				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ <small>Commercial "A" = Results Only Commercial "B" = Results + QC Summary</small>					

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date/Time:	Received By:	Relinquished By:	Date/Time:	Received By:
<i>Chris Frauen</i>	6/26/15 17:00	1 <i>FX</i>	2 <i>FE</i>	6/27/15	2 <i>Chris Frauen</i>
3		3	4		4
5		5	Custody Seal #		

Intact    Preserved where applicable    On Ice  Cooler Temp.  1.7°C  
 Not Intact

**MC39709: Chain of Custody**

**Page 1 of 2**

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** MC39709      **Client:** O+M      **Project:** FTC MANNETTE  
**Date / Time Received:** 6/27/2015 10:30:00 AM      **Delivery Method:** \_\_\_\_\_      **Airbill #'s:** \_\_\_\_\_  
**Cooler Temps (Initial/Adjusted):** #1: (1.7/1.7);\_

**Cooler Security**      Y or N      Y or N  
 1. Custody Seals Present:        3. COC Present:    
 2. Custody Seals Intact:        4. Smpl Dates/Time OK:

**Cooler Temperature**      Y or N  
 1. Temp criteria achieved:    
 2. Thermometer ID: \_\_\_\_\_ G1; \_\_\_\_\_  
 3. Cooler media: \_\_\_\_\_ Ice (Bag) \_\_\_\_\_  
 4. No. Coolers: \_\_\_\_\_ 1 \_\_\_\_\_

**Quality Control Preservation**      Y      or      N      N/A  
 1. Trip Blank present / cooler:     
 2. Trip Blank listed on COC:     
 3. Samples preserved properly:     
 4. VOCs headspace free:

**Sample Integrity - Documentation**      Y      or      N  
 1. Sample labels present on bottles:    
 2. Container labeling complete:    
 3. Sample container label / COC agree:

**Sample Integrity - Condition**      Y      or      N  
 1. Sample recvd within HT:    
 2. All containers accounted for:    
 3. Condition of sample: \_\_\_\_\_ Intact \_\_\_\_\_

**Sample Integrity - Instructions**      Y      or      N      N/A  
 1. Analysis requested is clear:    
 2. Bottles received for unspecified tests:    
 3. Sufficient volume recvd for analysis:    
 4. Compositing instructions clear:     
 5. Filtering instructions clear:

Comments

5.1 5



## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

## Method Blank Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1474-MB	V40868.D	1	07/09/15	JB	n/a	n/a	MSV1474

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-2, MC39709-3, MC39709-4, MC39709-5, MC39709-6, MC39709-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1474-MB	V40868.D	1	07/09/15	JB	n/a	n/a	MSV1474

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-2, MC39709-3, MC39709-4, MC39709-5, MC39709-6, MC39709-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1474-MB	V40868.D	1	07/09/15	JB	n/a	n/a	MSV1474

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-2, MC39709-3, MC39709-4, MC39709-5, MC39709-6, MC39709-8

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	96% 72-133%
2037-26-5	Toluene-D8	88% 85-114%
460-00-4	4-Bromofluorobenzene	91% 70-134%

## Method Blank Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5418-MB	G144597.D	1	07/10/15	MC	n/a	n/a	MSG5418

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-1, MC39709-7

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5418-MB	G144597.D	1	07/10/15	MC	n/a	n/a	MSG5418

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-1, MC39709-7

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5418-MB	G144597.D	1	07/10/15	MC	n/a	n/a	MSG5418

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-1, MC39709-7

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	97% 72-133%
2037-26-5	Toluene-D8	99% 85-114%
460-00-4	4-Bromofluorobenzene	105% 70-134%

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1474-BS	V40865.D	1	07/09/15	JB	n/a	n/a	MSV1474
MSV1474-BSD	V40866.D	1	07/09/15	JB	n/a	n/a	MSV1474

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-2, MC39709-3, MC39709-4, MC39709-5, MC39709-6, MC39709-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	38.8	78	38.3	77	1	14-172/25
71-43-2	Benzene	50	41.5	83	42.0	84	1	68-127/25
108-86-1	Bromobenzene	50	46.2	92	46.6	93	1	74-124/25
74-97-5	Bromochloromethane	50	41.9	84	41.2	82	2	68-135/25
75-27-4	Bromodichloromethane	50	41.3	83	41.6	83	1	72-144/25
75-25-2	Bromoform	50	48.0	96	47.4	95	1	59-147/25
74-83-9	Bromomethane	50	42.9	86	42.9	86	0	34-175/25
78-93-3	2-Butanone (MEK)	50	40.6	81	39.0	78	4	43-147/25
104-51-8	n-Butylbenzene	50	48.7	97	49.5	99	2	77-136/25
135-98-8	sec-Butylbenzene	50	49.7	99	51.1	102	3	75-134/25
98-06-6	tert-Butylbenzene	50	51.1	102	52.2	104	2	74-132/25
75-15-0	Carbon disulfide	50	37.7	75	38.8	78	3	34-171/25
56-23-5	Carbon tetrachloride	50	45.2	90	46.1	92	2	55-153/25
108-90-7	Chlorobenzene	50	46.2	92	47.1	94	2	71-123/25
75-00-3	Chloroethane	50	42.3	85	41.4	83	2	58-175/25
67-66-3	Chloroform	50	43.9	88	44.0	88	0	67-136/25
74-87-3	Chloromethane	50	40.5	81	40.1	80	1	25-182/25
95-49-8	o-Chlorotoluene	50	44.5	89	45.1	90	1	72-130/25
106-43-4	p-Chlorotoluene	50	43.8	88	44.7	89	2	73-127/25
96-12-8	1,2-Dibromo-3-chloropropane	50	40.9	82	39.1	78	4	50-159/25
124-48-1	Dibromochloromethane	50	48.0	96	47.9	96	0	73-139/25
106-93-4	1,2-Dibromoethane	50	44.5	89	44.3	89	0	69-132/25
95-50-1	1,2-Dichlorobenzene	50	45.8	92	46.0	92	0	77-125/25
541-73-1	1,3-Dichlorobenzene	50	47.0	94	47.4	95	1	77-124/25
106-46-7	1,4-Dichlorobenzene	50	45.1	90	45.6	91	1	73-128/25
75-71-8	Dichlorodifluoromethane	50	50.2	100	48.7	97	3	23-157/25
75-34-3	1,1-Dichloroethane	50	37.4	75	37.7	75	1	63-145/25
107-06-2	1,2-Dichloroethane	50	39.4	79	39.0	78	1	58-145/25
75-35-4	1,1-Dichloroethene	50	39.8	80	41.2	82	3	56-158/25
156-59-2	cis-1,2-Dichloroethene	50	41.9	84	42.0	84	0	67-133/25
156-60-5	trans-1,2-Dichloroethene	50	40.5	81	40.7	81	0	66-136/25
78-87-5	1,2-Dichloropropane	50	39.4	79	39.8	80	1	75-133/25
142-28-9	1,3-Dichloropropane	50	43.0	86	42.6	85	1	70-127/25
594-20-7	2,2-Dichloropropane	50	48.6	97	48.5	97	0	52-163/25
563-58-6	1,1-Dichloropropene	50	43.6	87	44.3	89	2	77-140/25
10061-01-5	cis-1,3-Dichloropropene	50	43.9	88	43.7	87	0	74-141/25

\* = Outside of Control Limits.



# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1474-BS	V40865.D	1	07/09/15	JB	n/a	n/a	MSV1474
MSV1474-BSD	V40866.D	1	07/09/15	JB	n/a	n/a	MSV1474

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-2, MC39709-3, MC39709-4, MC39709-5, MC39709-6, MC39709-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	45.0	90	45.0	90	0	77-143/25
100-41-4	Ethylbenzene	50	47.6	95	48.1	96	1	71-129/25
87-68-3	Hexachlorobutadiene	50	50.5	101	52.6	105	4	64-146/25
591-78-6	2-Hexanone	50	41.6	83	40.3	81	3	22-163/25
74-88-4	Iodomethane	50	43.1	86	44.6	89	3	30-166/25
98-82-8	Isopropylbenzene	50	48.5	97	49.9	100	3	72-133/25
99-87-6	p-Isopropyltoluene	50	51.9	104	53.1	106	2	77-134/25
1634-04-4	Methyl Tert Butyl Ether	50	40.8	82	40.6	81	0	46-151/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	39.8	80	38.0	76	5	47-145/25
74-95-3	Methylene bromide	50	39.8	80	39.6	79	1	70-132/25
75-09-2	Methylene chloride	50	36.1	72	37.1	74	3	55-146/25
91-20-3	Naphthalene	50	45.6	91	42.8	86	6	39-176/25
103-65-1	n-Propylbenzene	50	46.2	92	47.4	95	3	74-134/25
100-42-5	Styrene	50	51.9	104	52.2	104	1	71-134/25
630-20-6	1,1,1,2-Tetrachloroethane	50	52.4	105	52.8	106	1	70-137/25
79-34-5	1,1,2,2-Tetrachloroethane	50	36.6	73	35.9	72	2	58-145/25
127-18-4	Tetrachloroethene	50	58.4	117	59.8	120	2	63-137/25
108-88-3	Toluene	50	42.5	85	42.9	86	1	75-126/25
87-61-6	1,2,3-Trichlorobenzene	50	47.5	95	45.4	91	5	27-181/25
120-82-1	1,2,4-Trichlorobenzene	50	49.0	98	47.3	95	4	40-176/25
71-55-6	1,1,1-Trichloroethane	50	41.0	82	41.7	83	2	68-144/25
79-00-5	1,1,2-Trichloroethane	50	39.3	79	38.8	78	1	72-133/25
79-01-6	Trichloroethene	50	43.6	87	43.7	87	0	73-126/25
75-69-4	Trichlorofluoromethane	50	42.3	85	42.5	85	0	43-152/25
96-18-4	1,2,3-Trichloropropane	50	39.7	79	38.6	77	3	58-141/25
95-63-6	1,2,4-Trimethylbenzene	50	48.3	97	49.3	99	2	76-129/25
108-67-8	1,3,5-Trimethylbenzene	50	48.8	98	50.0	100	2	71-127/25
108-05-4	Vinyl Acetate	50	41.2	82	40.4	81	2	10-170/25
75-01-4	Vinyl chloride	50	40.7	81	41.1	82	1	36-167/25
	m,p-Xylene	100	97.7	98	99.3	99	2	68-130/25
95-47-6	o-Xylene	50	53.2	106	53.4	107	0	69-126/25
1330-20-7	Xylene (total)	150	151	101	153	102	1	67-129/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1474-BS	V40865.D	1	07/09/15	JB	n/a	n/a	MSV1474
MSV1474-BSD	V40866.D	1	07/09/15	JB	n/a	n/a	MSV1474

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-2, MC39709-3, MC39709-4, MC39709-5, MC39709-6, MC39709-8

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	94%	93%	72-133%
2037-26-5	Toluene-D8	93%	94%	85-114%
460-00-4	4-Bromofluorobenzene	96%	95%	70-134%

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5418-BS	G144594.D	1	07/10/15	MC	n/a	n/a	MSG5418
MSG5418-BSD	G144595.D	1	07/10/15	MC	n/a	n/a	MSG5418

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-1, MC39709-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	40.9	82	36.9	74	10	14-172/25
71-43-2	Benzene	50	45.7	91	38.5	77	17	68-127/25
108-86-1	Bromobenzene	50	54.5	109	45.8	92	17	74-124/25
74-97-5	Bromochloromethane	50	45.1	90	39.8	80	12	68-135/25
75-27-4	Bromodichloromethane	50	53.8	108	47.0	94	13	72-144/25
75-25-2	Bromoform	50	52.1	104	47.3	95	10	59-147/25
74-83-9	Bromomethane	50	50.5	101	42.7	85	17	34-175/25
78-93-3	2-Butanone (MEK)	50	40.2	80	38.4	77	5	43-147/25
104-51-8	n-Butylbenzene	50	61.7	123	49.7	99	22	77-136/25
135-98-8	sec-Butylbenzene	50	59.6	119	48.0	96	22	75-134/25
98-06-6	tert-Butylbenzene	50	60.0	120	48.6	97	21	74-132/25
75-15-0	Carbon disulfide	50	37.3	75	31.8	64	16	34-171/25
56-23-5	Carbon tetrachloride	50	52.8	106	44.2	88	18	55-153/25
108-90-7	Chlorobenzene	50	55.5	111	46.3	93	18	71-123/25
75-00-3	Chloroethane	50	50.4	101	41.5	83	19	58-175/25
67-66-3	Chloroform	50	48.1	96	41.4	83	15	67-136/25
74-87-3	Chloromethane	50	58.6	117	47.5	95	21	25-182/25
95-49-8	o-Chlorotoluene	50	58.4	117	46.4	93	23	72-130/25
106-43-4	p-Chlorotoluene	50	56.9	114	48.1	96	17	73-127/25
96-12-8	1,2-Dibromo-3-chloropropane	50	56.0	112	51.4	103	9	50-159/25
124-48-1	Dibromochloromethane	50	53.6	107	47.8	96	11	73-139/25
106-93-4	1,2-Dibromoethane	50	51.5	103	45.9	92	11	69-132/25
95-50-1	1,2-Dichlorobenzene	50	56.5	113	48.6	97	15	77-125/25
541-73-1	1,3-Dichlorobenzene	50	57.8	116	48.0	96	19	77-124/25
106-46-7	1,4-Dichlorobenzene	50	57.0	114	47.8	96	18	73-128/25
75-71-8	Dichlorodifluoromethane	50	51.8	104	43.6	87	17	23-157/25
75-34-3	1,1-Dichloroethane	50	45.1	90	38.0	76	17	63-145/25
107-06-2	1,2-Dichloroethane	50	46.5	93	41.6	83	11	58-145/25
75-35-4	1,1-Dichloroethene	50	40.3	81	34.4	69	16	56-158/25
156-59-2	cis-1,2-Dichloroethene	50	45.6	91	38.3	77	17	67-133/25
156-60-5	trans-1,2-Dichloroethene	50	42.8	86	35.8	72	18	66-136/25
78-87-5	1,2-Dichloropropane	50	47.1	94	40.7	81	15	75-133/25
142-28-9	1,3-Dichloropropane	50	50.6	101	45.0	90	12	70-127/25
594-20-7	2,2-Dichloropropane	50	58.4	117	48.9	98	18	52-163/25
563-58-6	1,1-Dichloropropene	50	52.6	105	43.4	87	19	77-140/25
10061-01-5	cis-1,3-Dichloropropene	50	51.6	103	45.3	91	13	74-141/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5418-BS	G144594.D	1	07/10/15	MC	n/a	n/a	MSG5418
MSG5418-BSD	G144595.D	1	07/10/15	MC	n/a	n/a	MSG5418

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-1, MC39709-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	52.2	104	47.0	94	10	77-143/25
100-41-4	Ethylbenzene	50	51.7	103	42.4	85	20	71-129/25
87-68-3	Hexachlorobutadiene	50	60.1	120	49.7	99	19	64-146/25
591-78-6	2-Hexanone	50	40.1	80	36.9	74	8	22-163/25
74-88-4	Iodomethane	50	40.5	81	34.4	69	16	30-166/25
98-82-8	Isopropylbenzene	50	60.5	121	48.2	96	23	72-133/25
99-87-6	p-Isopropyltoluene	50	60.2	120	48.4	97	22	77-134/25
1634-04-4	Methyl Tert Butyl Ether	50	42.0	84	39.8	80	5	46-151/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	47.7	95	46.5	93	3	47-145/25
74-95-3	Methylene bromide	50	49.3	99	44.6	89	10	70-132/25
75-09-2	Methylene chloride	50	41.6	83	35.8	72	15	55-146/25
91-20-3	Naphthalene	50	51.0	102	47.5	95	7	39-176/25
103-65-1	n-Propylbenzene	50	59.0	118	47.7	95	21	74-134/25
100-42-5	Styrene	50	53.4	107	45.1	90	17	71-134/25
630-20-6	1,1,1,2-Tetrachloroethane	50	57.0	114	48.5	97	16	70-137/25
79-34-5	1,1,2,2-Tetrachloroethane	50	56.7	113	51.4	103	10	58-145/25
127-18-4	Tetrachloroethene	50	53.3	107	42.8	86	22	63-137/25
108-88-3	Toluene	50	48.6	97	40.9	82	17	75-126/25
87-61-6	1,2,3-Trichlorobenzene	50	51.5	103	47.9	96	7	27-181/25
120-82-1	1,2,4-Trichlorobenzene	50	54.6	109	47.6	95	14	40-176/25
71-55-6	1,1,1-Trichloroethane	50	53.1	106	43.8	88	19	68-144/25
79-00-5	1,1,2-Trichloroethane	50	51.3	103	46.8	94	9	72-133/25
79-01-6	Trichloroethene	50	49.5	99	41.2	82	18	73-126/25
75-69-4	Trichlorofluoromethane	50	59.2	118	50.4	101	16	43-152/25
96-18-4	1,2,3-Trichloropropane	50	53.9	108	48.8	98	10	58-141/25
95-63-6	1,2,4-Trimethylbenzene	50	60.0	120	49.0	98	20	76-129/25
108-67-8	1,3,5-Trimethylbenzene	50	60.4	121	49.1	98	21	71-127/25
108-05-4	Vinyl Acetate	50	56.3	113	53.3	107	5	10-170/25
75-01-4	Vinyl chloride	50	50.8	102	42.8	86	17	36-167/25
	m,p-Xylene	100	101	101	83.3	83	19	68-130/25
95-47-6	o-Xylene	50	49.3	99	41.2	82	18	69-126/25
1330-20-7	Xylene (total)	150	151	101	125	83	19	67-129/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5418-BS	G144594.D	1	07/10/15	MC	n/a	n/a	MSG5418
MSG5418-BSD	G144595.D	1	07/10/15	MC	n/a	n/a	MSG5418

The QC reported here applies to the following samples:

Method: SW846 8260C

MC39709-1, MC39709-7

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	100%	72-133%
2037-26-5	Toluene-D8	99%	99%	85-114%
460-00-4	4-Bromofluorobenzene	99%	99%	70-134%

\* = Outside of Control Limits.

# Volatile Surrogate Recovery Summary

**Job Number:** MC39709

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

**Method:** SW846 8260C

**Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC39709-1	G144600.D	97	97	112
MC39709-2	V40878.D	93	87	91
MC39709-3	V40879.D	93	88	90
MC39709-4	V40880.D	95	88	90
MC39709-5	V40881.D	97	89	89
MC39709-6	V40882.D	96	88	90
MC39709-7	G144601.D	98	98	100
MC39709-8	V40883.D	97	88	89
MSG5418-BS	G144594.D	97	99	99
MSG5418-BSD	G144595.D	100	99	99
MSG5418-MB	G144597.D	97	99	105
MSV1474-BS	V40865.D	94	93	96
MSV1474-BSD	V40866.D	93	94	95
MSV1474-MB	V40868.D	96	88	91

## Surrogate Compounds

## Recovery Limits

S1 = Dibromofluoromethane

72-133%

S2 = Toluene-D8

85-114%

S3 = 4-Bromofluorobenzene

70-134%

Technical Report for

Tyco International

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
493

Accutest Job Number: MC41909

Sampling Dates: 09/28/15 - 10/01/15

Report to:

O&M, Inc.

efrauen@oandm-inc.com

ATTN: Eric Frauen

Total number of pages in report: **195**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

  
Reza Fand  
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Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220)

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## Sample Summary

Tyco International

**Job No:** MC41909

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC41909-1	09/29/15	08:50 ETF	10/02/15	AQ	Ground Water	HMW-1
MC41909-1F	09/29/15	08:50 ETF	10/02/15	AQ	Groundwater Filtered	HMW-1
MC41909-2	09/29/15	11:00 ETF	10/02/15	AQ	Ground Water	HMW-2
MC41909-2F	09/29/15	11:00 ETF	10/02/15	AQ	Groundwater Filtered	HMW-2
MC41909-3	09/29/15	11:05 ETF	10/02/15	AQ	Ground Water	HMW-3
MC41909-3F	09/29/15	11:05 ETF	10/02/15	AQ	Groundwater Filtered	HMW-3
MC41909-4	09/29/15	11:10 ETF	10/02/15	AQ	Ground Water	HMW-4
MC41909-4F	09/29/15	11:10 ETF	10/02/15	AQ	Groundwater Filtered	HMW-4
MC41909-5	09/29/15	15:15 ETF	10/02/15	AQ	Ground Water	HMW-5
MC41909-5F	09/29/15	15:15 ETF	10/02/15	AQ	Groundwater Filtered	HMW-5
MC41909-6	09/29/15	14:55 ETF	10/02/15	AQ	Ground Water	HMW-6
MC41909-6F	09/29/15	14:55 ETF	10/02/15	AQ	Groundwater Filtered	HMW-6
MC41909-7	09/29/15	15:05 ETF	10/02/15	AQ	Ground Water	HMW-7



## Sample Summary

(continued)

Tyco International

**Job No:** MC41909

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC41909-7F	09/29/15	15:05 ETF	10/02/15	AQ	Groundwater Filtered	HMW-7
MC41909-8	09/28/15	11:45 ETF	10/02/15	AQ	Ground Water	PZ-15D
MC41909-9	09/28/15	14:10 ETF	10/02/15	AQ	Ground Water	PZ-17S
MC41909-10	09/28/15	14:55 ETF	10/02/15	AQ	Ground Water	PZ-6S
MC41909-11	09/29/15	08:25 ETF	10/02/15	AQ	Ground Water	PZ-16S
MC41909-12	09/29/15	09:40 ETF	10/02/15	AQ	Ground Water	PZ-16D
MC41909-13	09/29/15	12:50 ETF	10/02/15	AQ	Ground Water	PZ-9
MC41909-14	09/29/15	15:00 ETF	10/02/15	AQ	Ground Water	PZ-3
MC41909-15	09/28/15	10:20 ETF	10/02/15	AQ	Ground Water	PZ-1D
MC41909-16	09/28/15	11:15 ETF	10/02/15	AQ	Ground Water	PZ-15S
MC41909-17	09/28/15	13:35 ETF	10/02/15	AQ	Ground Water	PZ-17D
MC41909-18	09/29/15	10:25 ETF	10/02/15	AQ	Ground Water	PZ-2
MC41909-19	09/29/15	11:45 ETF	10/02/15	AQ	Ground Water	PZ-13

## Sample Summary

(continued)

Tyco International

**Job No:** MC41909

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC41909-20	09/29/15	15:45 ETF	10/02/15	AQ	Ground Water	PZ-22S
MC41909-21	09/28/15	09:30 ETF	10/02/15	AQ	Ground Water	PZ-15
MC41909-22	09/30/15	07:45 ETF	10/02/15	AQ	Ground Water	PS-22D
MC41909-23	09/30/15	08:35 ETF	10/02/15	AQ	Ground Water	PZ-18S
MC41909-24	09/30/15	09:10 ETF	10/02/15	AQ	Ground Water	PZ-18D
MC41909-25	09/30/15	09:55 ETF	10/02/15	AQ	Ground Water	PZ-7
MC41909-26	09/30/15	11:40 ETF	10/02/15	AQ	Ground Water	PZ-12
MC41909-27	09/30/15	12:25 ETF	10/02/15	AQ	Ground Water	PZ-20
MC41909-28	09/30/15	13:15 ETF	10/02/15	AQ	Ground Water	PZ-19
MC41909-29	09/30/15	13:55 ETF	10/02/15	AQ	Ground Water	BIW-4
MC41909-30	09/30/15	15:00 ETF	10/02/15	AQ	Ground Water	PZ-21
MC41909-31	09/30/15	16:10 ETF	10/02/15	AQ	Ground Water	PZ-14S
MC41909-32	09/30/15	16:40 ETF	10/02/15	AQ	Ground Water	PZ-14D



## Sample Summary

(continued)

Tyco International

**Job No:** MC41909

OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Project No: 493

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC41909-33	10/01/15	08:15 ETF	10/02/15	AQ	Ground Water	PZ-4S
MC41909-34	10/01/15	08:40 ETF	10/02/15	AQ	Ground Water	PZ-4D
MC41909-35	10/01/15	07:25 ETF	10/02/15	AQ	Ground Water	PZ-10
MC41909-36	10/01/15	09:45 ETF	10/02/15	AQ	Ground Water	PZ-11
MC41909-37	10/01/15	10:30 ETF	10/02/15	AQ	Ground Water	PZ-8



### SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Tyco International

**Job No** MC41909

**Site:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Mari

**Report Date** 10/27/2015 11:43:34 AM

37 Sample(s) were collected on between 09/28/2015 and 10/01/2015 and were received at Accutest on 10/02/2015 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of MC41909. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

#### Volatiles by GCMS By Method SW846 8260C

**Matrix:** AQ **Batch ID:** MSG5483

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC41827-8MS, MC41827-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 1,1,1,2-Tetrachloroethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, Bromobenzene, Chlorobenzene, m,p-Xylene, Methylene bromide, p-Chlorotoluene, p-Isopropyltoluene, tert-Butylbenzene are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for Carbon disulfide are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichloropropane, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichloropropane, 2,2-Dichloropropane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Bromobenzene, Bromochloromethane, Bromodichloromethane, Bromoform, Bromomethane, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dichlorodifluoromethane, Hexachlorobutadiene, Iodomethane, m,p-Xylene, Methyl Tert Butyl Ether, Methylene bromide, Methylene chloride, o-Xylene, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Acetate, Vinyl chloride, Xylene (total) are outside control limits for sample MC41827-8MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MC41909-33: The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

**Matrix:** AQ **Batch ID:** MSG5487

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC41933-1MS, MC41933-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- MC41909-30: Dilution required due to high sediment level.

**Matrix:** AQ **Batch ID:** MSG5495

- All method blanks for this batch meet method specific criteria.
- MC41909-37: Sample analyzed past recommended hold time.

**Matrix:** AQ **Batch ID:** MSH2511

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC41757-3MS, MC41757-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

**Matrix:** AQ **Batch ID:** MSH2514

- All samples were analyzed within the recommended method holding time.

## Volatiles by GCMS By Method SW846 8260C

**Matrix:** AQ                      **Batch ID:** MSH2514

- All method blanks for this batch meet method specific criteria.
- RPD of MSH2514-BSD for Acetone, 2-Hexanone: Outside control limits. Individual spike recoveries within acceptance limits.

**Matrix:** AQ                      **Batch ID:** MSL4183

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC41890-3MS, MC41890-3MSD were used as the QC samples indicated.
- MC41909-14: The pH of the sample aliquot for VOA analysis was >2 at time of analysis.
- MC41909-24,25,26,27: Elevated RL due to dilution required for matrix interference.

**Matrix:** AQ                      **Batch ID:** MSL4184

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- MC41909-7: The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

**Matrix:** AQ                      **Batch ID:** MSL4185

- All method blanks for this batch meet method specific criteria.
- Sample(s) MC42044-20MS, MC42044-20MSD were used as the QC samples indicated.
- MC41909-2,4: Samples were rerun outside of holding time.
- MC42044-20MS/MSD: The pH of the sample aliquot for VOA analysis was >2 at time of analysis.

**Matrix:** AQ                      **Batch ID:** MSU1352

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC41909-31, MC41909-32 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- MSU1352-BS, RPD of MSU1352-BSD Recovery(s) for trans-1,3-Dichloropropene are outside control limits. Refer to Blank Spike Duplicate.
- MC41909-31,32: Elevated RL due to dilution required for matrix interference (foaming).
- RPD of MSU1352-BSD for Acetone, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), 1,1,2-Trichloroethane: Outside control limits: Outside control limits. Individual spike recoveries within acceptance limits.

## Extractables by GCMS By Method SW846 8270D BY SIM

**Matrix:** AQ                      **Batch ID:** OP44860

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC41909-1, MC41909-2, MC41909-3, MC41909-5, MC41909-6, MC41909-7 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.

## Metals By Method SW846 6010C

**Matrix:** AQ                      **Batch ID:** MP25239

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC41804-6MS, MC41804-6MSD, MC41804-6SDL were used as the QC samples for metals.

## Metals By Method SW846 7470A

**Matrix:** AQ

**Batch ID:** MP25251

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC41803-1MS, MC41803-1MSD were used as the QC samples for metals.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC41909).



## Summary of Hits

**Job Number:** MC41909  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 09/28/15 thru 10/01/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>MC41909-1</b>	<b>HMW-1</b>					
Fluoranthene		0.036 J	0.10	0.0076	ug/l	SW846 8270D BY SIM
2-Methylnaphthalene		0.017 JB	2.0	0.011	ug/l	SW846 8270D BY SIM
Naphthalene		0.020 JB	2.0	0.0083	ug/l	SW846 8270D BY SIM
Pyrene		0.034 J	0.10	0.0087	ug/l	SW846 8270D BY SIM
<b>MC41909-1F</b>	<b>HMW-1</b>					
Arsenic		1.8 B	4.0	1.7	ug/l	SW846 6010C
Barium		48.6 B	50	1.0	ug/l	SW846 6010C
Chromium		3.0 B	10	0.48	ug/l	SW846 6010C
<b>MC41909-2</b>	<b>HMW-2</b>					
Vinyl chloride		22.7	1.0	0.45	ug/l	SW846 8260C
Naphthalene		0.016 JB	2.1	0.0084	ug/l	SW846 8270D BY SIM
<b>MC41909-2F</b>	<b>HMW-2</b>					
Barium		7.3 B	50	1.0	ug/l	SW846 6010C
<b>MC41909-3</b>	<b>HMW-3</b>					
Naphthalene		0.023 JB	2.1	0.0085	ug/l	SW846 8270D BY SIM
<b>MC41909-3F</b>	<b>HMW-3</b>					
Barium		15.3 B	50	1.0	ug/l	SW846 6010C
<b>MC41909-4</b>	<b>HMW-4</b>					
Vinyl chloride		4.3	1.0	0.45	ug/l	SW846 8260C
<b>MC41909-4F</b>	<b>HMW-4</b>					
Barium		7.2 B	50	1.0	ug/l	SW846 6010C
<b>MC41909-5</b>	<b>HMW-5</b>					
Naphthalene		0.024 JB	2.1	0.0085	ug/l	SW846 8270D BY SIM
<b>MC41909-5F</b>	<b>HMW-5</b>					
Barium		39.4 B	50	1.0	ug/l	SW846 6010C

## Summary of Hits

**Job Number:** MC41909  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 09/28/15 thru 10/01/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chromium		1.4 B	10	0.48	ug/l	SW846 6010C
Lead		2.2 B	5.0	1.7	ug/l	SW846 6010C
<b>MC41909-6</b>	<b>HMW-6</b>					
Naphthalene		0.017 JB	2.0	0.0083	ug/l	SW846 8270D BY SIM
<b>MC41909-6F</b>	<b>HMW-6</b>					
Barium		37.1 B	50	1.0	ug/l	SW846 6010C
<b>MC41909-7</b>	<b>HMW-7</b>					
2-Methylnaphthalene		0.019 JB	2.1	0.011	ug/l	SW846 8270D BY SIM
Naphthalene		0.020 JB	2.1	0.0084	ug/l	SW846 8270D BY SIM
<b>MC41909-7F</b>	<b>HMW-7</b>					
Barium		26.2 B	50	1.0	ug/l	SW846 6010C
<b>MC41909-8</b>	<b>PZ-15D</b>					
cis-1,2-Dichloroethene		0.33 J	1.0	0.31	ug/l	SW846 8260C
Trichloroethene		1.4	1.0	0.25	ug/l	SW846 8260C
<b>MC41909-9</b>	<b>PZ-17S</b>					
No hits reported in this sample.						
<b>MC41909-10</b>	<b>PZ-6S</b>					
No hits reported in this sample.						
<b>MC41909-11</b>	<b>PZ-16S</b>					
No hits reported in this sample.						
<b>MC41909-12</b>	<b>PZ-16D</b>					
Benzene		0.77	0.50	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene		0.56 J	1.0	0.31	ug/l	SW846 8260C
Trichloroethene		1.3	1.0	0.25	ug/l	SW846 8260C

## Summary of Hits

**Job Number:** MC41909  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 09/28/15 thru 10/01/15

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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### MC41909-13 PZ-9

No hits reported in this sample.

### MC41909-14 PZ-3

Benzene <sup>a</sup>	75.9	25	14	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>a</sup>	649	50	17	ug/l	SW846 8260C

### MC41909-15 PZ-1D

No hits reported in this sample.

### MC41909-16 PZ-15S

No hits reported in this sample.

### MC41909-17 PZ-17D

Benzene	0.52	0.50	0.27	ug/l	SW846 8260C
cis-1,2-Dichloroethene	2.5	1.0	0.31	ug/l	SW846 8260C
Trichloroethene	10.4	1.0	0.25	ug/l	SW846 8260C

### MC41909-18 PZ-2

Benzene	1.3	0.50	0.27	ug/l	SW846 8260C
Chloromethane	2.8	2.0	0.49	ug/l	SW846 8260C
cis-1,2-Dichloroethene	5.2	1.0	0.31	ug/l	SW846 8260C
Trichloroethene	9.8	1.0	0.25	ug/l	SW846 8260C

### MC41909-19 PZ-13

No hits reported in this sample.

### MC41909-20 PZ-22S

No hits reported in this sample.

### MC41909-21 PZ-15

No hits reported in this sample.

### MC41909-22 PS-22D

No hits reported in this sample.

## Summary of Hits

**Job Number:** MC41909  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 09/28/15 thru 10/01/15



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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**MC41909-23 PZ-18S**

No hits reported in this sample.

**MC41909-24 PZ-18D**

Benzene <sup>b</sup>	59.0	25	14	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>b</sup>	386	50	17	ug/l	SW846 8260C

**MC41909-25 PZ-7**

Benzene <sup>b</sup>	37.0	2.5	1.4	ug/l	SW846 8260C
Ethylbenzene <sup>b</sup>	5.0	5.0	1.2	ug/l	SW846 8260C
Xylene (total) <sup>b</sup>	1.1 J	5.0	1.1	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>b</sup>	632	5.0	1.7	ug/l	SW846 8260C

**MC41909-26 PZ-12**

Benzene <sup>b</sup>	10.7	2.5	1.4	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>b</sup>	165	5.0	1.7	ug/l	SW846 8260C

**MC41909-27 PZ-20**

Benzene <sup>b</sup>	38.7	2.5	1.4	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>b</sup>	104	5.0	1.7	ug/l	SW846 8260C

**MC41909-28 PZ-19**

Benzene	0.58	0.50	0.27	ug/l	SW846 8260C
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**MC41909-29 BIW-4**

Benzene	7.0 J	10	5.4	ug/l	SW846 8260C
Methyl Tert Butyl Ether	105	20	7.0	ug/l	SW846 8260C

**MC41909-30 PZ-21**

Benzene <sup>c</sup>	280	25	14	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>c</sup>	154	50	17	ug/l	SW846 8260C

**MC41909-31 PZ-14S**

Carbon disulfide <sup>d</sup>	2.5 JB	25	0.93	ug/l	SW846 8260C
Ethylbenzene <sup>d</sup>	8.4	5.0	1.2	ug/l	SW846 8260C

## Summary of Hits

**Job Number:** MC41909  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 09/28/15 thru 10/01/15



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene <sup>d</sup>		56.8	25	3.0	ug/l	SW846 8260C
n-Propylbenzene <sup>d</sup>		2.0 J	25	1.5	ug/l	SW846 8260C
Toluene <sup>d</sup>		8.1	5.0	1.5	ug/l	SW846 8260C
1,2,4-Trimethylbenzene <sup>d</sup>		40.0	25	1.4	ug/l	SW846 8260C
1,3,5-Trimethylbenzene <sup>d</sup>		10.8 J	25	1.0	ug/l	SW846 8260C
m,p-Xylene <sup>d</sup>		51.9	5.0	2.3	ug/l	SW846 8260C
o-Xylene <sup>d</sup>		25.9	5.0	1.1	ug/l	SW846 8260C
Xylene (total) <sup>d</sup>		77.8	5.0	1.1	ug/l	SW846 8260C
<b>MC41909-32 PZ-14D</b>						
Carbon disulfide <sup>d</sup>		2.9 JB	25	0.93	ug/l	SW846 8260C
Chloroethane <sup>d</sup>		2.7 J	10	2.5	ug/l	SW846 8260C
cis-1,2-Dichloroethene <sup>d</sup>		9.1	5.0	1.6	ug/l	SW846 8260C
Trichloroethene <sup>d</sup>		1.4 J	5.0	1.2	ug/l	SW846 8260C
Vinyl chloride <sup>d</sup>		107	5.0	2.3	ug/l	SW846 8260C
<b>MC41909-33 PZ-4S</b>						
Benzene <sup>a</sup>		364	10	5.4	ug/l	SW846 8260C
Ethylbenzene <sup>a</sup>		22.4	20	4.8	ug/l	SW846 8260C
Xylene (total) <sup>a</sup>		15.1 J	20	4.3	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>a</sup>		464	20	7.0	ug/l	SW846 8260C
1,2,4-Trimethylbenzene <sup>a</sup>		9.9 J	100	5.7	ug/l	SW846 8260C
<b>MC41909-34 PZ-4D</b>						
Methyl Tert Butyl Ether		0.95 J	1.0	0.35	ug/l	SW846 8260C
<b>MC41909-35 PZ-10</b>						
Bromodichloromethane		2.2	1.0	0.18	ug/l	SW846 8260C
Chloroform		3.7	1.0	0.40	ug/l	SW846 8260C
Dibromochloromethane		0.99 J	1.0	0.22	ug/l	SW846 8260C
<b>MC41909-36 PZ-11</b>						
Methyl Tert Butyl Ether		8.1	1.0	0.35	ug/l	SW846 8260C
<b>MC41909-37 PZ-8</b>						
Benzene <sup>e</sup>		314	2.5	1.4	ug/l	SW846 8260C
Ethylbenzene <sup>e</sup>		47.5	5.0	1.2	ug/l	SW846 8260C
Xylene (total) <sup>e</sup>		19.9	5.0	1.1	ug/l	SW846 8260C
Methyl Tert Butyl Ether <sup>e</sup>		133	5.0	1.7	ug/l	SW846 8260C

## Summary of Hits

**Job Number:** MC41909  
**Account:** Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI  
**Collected:** 09/28/15 thru 10/01/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
		25.9	25	3.0	ug/l	SW846 8260C
		27.9	25	1.4	ug/l	SW846 8260C
		3.0 J	25	2.4	ug/l	SW846 8260C

- (a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.
- (b) Elevated RL due to dilution required for matrix interference.
- (c) Dilution required due to high sediment level.
- (d) Elevated RL due to dilution required for matrix interference (foaming).
- (e) Sample analyzed past recommended hold time.

Sample Results

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Report of Analysis

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# Report of Analysis

<b>Client Sample ID:</b> HMW-1		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-1		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95298.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> HMW-1	<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-1	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C	
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-1		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-1		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		80-116%
460-00-4	4-Bromofluorobenzene	107%		77-124%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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# Report of Analysis

<b>Client Sample ID:</b> HMW-1		
<b>Lab Sample ID:</b> MC41909-1		<b>Date Sampled:</b> 09/29/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 10/02/15
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I98254.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

### BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0077	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0086	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	0.036	0.10	0.0076	ug/l	J
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
91-57-6	2-Methylnaphthalene	0.017	2.0	0.011	ug/l	JB
91-20-3	Naphthalene	0.020	2.0	0.0083	ug/l	JB
85-01-8	Phenanthrene	ND	0.051	0.011	ug/l	
129-00-0	Pyrene	0.034	0.10	0.0087	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		26-121%
321-60-8	2-Fluorobiphenyl	53%		28-107%
1718-51-0	Terphenyl-d14	84%		29-129%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> HMW-1		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-1F		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Groundwater Filtered		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.8 B	4.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	48.6 B	50	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.43 U	4.0	0.43	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	3.0 B	10	0.48	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	1.7 U	5.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	0.096 U	0.20	0.096	ug/l	1	10/07/15	10/08/15 EC	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	2.0 U	10	2.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	1.0 U	5.0	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA18530
- (2) Instrument QC Batch: MA18535
- (3) Prep QC Batch: MP25239
- (4) Prep QC Batch: MP25251

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL

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## Report of Analysis

<b>Client Sample ID:</b>	HMW-2	<b>Date Sampled:</b>	09/29/15
<b>Lab Sample ID:</b>	MC41909-2	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C	<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95299.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2	L95323.D	1	10/14/15	MC	n/a	n/a	MSL4185

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-2	<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-2	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C	
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	22.7 <sup>a</sup>	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%	99%	79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-2		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-2		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%	98%	80-116%
460-00-4	4-Bromofluorobenzene	106%	98%	77-124%

(a) Result is from Run# 2

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> HMW-2		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-2		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I98255.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670
Run #2							

Run #	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

**BN PAH List**

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0078	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0088	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0077	ug/l	
86-73-7	Fluorene	ND	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.011	ug/l	
91-20-3	Naphthalene	0.016	2.1	0.0084	ug/l	JB
85-01-8	Phenanthrene	ND	0.052	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		26-121%
321-60-8	2-Fluorobiphenyl	52%		28-107%
1718-51-0	Terphenyl-d14	84%		29-129%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> HMW-2		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-2F		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Groundwater Filtered		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.7 U	4.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	7.3 B	50	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.43 U	4.0	0.43	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	0.48 U	10	0.48	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	1.7 U	5.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	0.096 U	0.20	0.096	ug/l	1	10/07/15	10/08/15 EC	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	2.0 U	10	2.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	1.0 U	5.0	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA18530
- (2) Instrument QC Batch: MA18535
- (3) Prep QC Batch: MP25239
- (4) Prep QC Batch: MP25251

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL

4.4  
4

## Report of Analysis

<b>Client Sample ID:</b>	HMW-3	<b>Date Sampled:</b>	09/29/15
<b>Lab Sample ID:</b>	MC41909-3	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C	<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95300.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-3		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-3		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	125%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-3		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-3		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		80-116%
460-00-4	4-Bromofluorobenzene	106%		77-124%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> HMW-3		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-3		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I98256.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670
Run #2							

Run #	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

**BN PAH List**

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.0079	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0088	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0078	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.012	ug/l	
91-20-3	Naphthalene	0.023	2.1	0.0085	ug/l	JB
85-01-8	Phenanthrene	ND	0.053	0.011	ug/l	
129-00-0	Pyrene	ND	0.11	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		26-121%
321-60-8	2-Fluorobiphenyl	58%		28-107%
1718-51-0	Terphenyl-d14	93%		29-129%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.5  
**4**

## Report of Analysis

<b>Client Sample ID:</b> HMW-3		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-3F		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Groundwater Filtered		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**Dissolved Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.7 U	4.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	15.3 B	50	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.43 U	4.0	0.43	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	0.48 U	10	0.48	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	1.7 U	5.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	0.096 U	0.20	0.096	ug/l	1	10/07/15	10/08/15 EC	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	2.0 U	10	2.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	1.0 U	5.0	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA18530
- (2) Instrument QC Batch: MA18535
- (3) Prep QC Batch: MP25239
- (4) Prep QC Batch: MP25251

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL

4.6  
4

## Report of Analysis

<b>Client Sample ID:</b>	HMW-4	<b>Date Sampled:</b>	09/29/15
<b>Lab Sample ID:</b>	MC41909-4	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C	<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95301.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2	L95324.D	1	10/14/15	MC	n/a	n/a	MSL4185

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





## Report of Analysis

<b>Client Sample ID:</b> HMW-4		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-4		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%	98%	80-116%
460-00-4	4-Bromofluorobenzene	105%	95%	77-124%

(a) Result is from Run# 2

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.7  
4

## Report of Analysis

<b>Client Sample ID:</b> HMW-4		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-4		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I98257.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670
Run #2							

Run #	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0077	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0087	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0076	ug/l	
86-73-7	Fluorene	ND	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.011	ug/l	
91-20-3	Naphthalene	ND	2.1	0.0084	ug/l	
85-01-8	Phenanthrene	ND	0.052	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0088	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		26-121%
321-60-8	2-Fluorobiphenyl	59%		28-107%
1718-51-0	Terphenyl-d14	90%		29-129%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-4		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-4F		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Groundwater Filtered		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.7 U	4.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	7.2 B	50	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.43 U	4.0	0.43	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	0.48 U	10	0.48	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	1.7 U	5.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	0.096 U	0.20	0.096	ug/l	1	10/07/15	10/08/15 EC	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	2.0 U	10	2.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	1.0 U	5.0	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA18530
- (2) Instrument QC Batch: MA18535
- (3) Prep QC Batch: MP25239
- (4) Prep QC Batch: MP25251

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL

4.8  
4

## Report of Analysis

<b>Client Sample ID:</b> HMW-5		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-5		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95302.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-5	<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-5	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C	
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	125%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-5		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-5		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		80-116%
460-00-4	4-Bromofluorobenzene	107%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.9  
4

## Report of Analysis

<b>Client Sample ID:</b> HMW-5	<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-5	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D BY SIM SW846 3510C	
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I98258.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670
Run #2							

Run #	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.11	0.0079	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.0088	ug/l	
120-12-7	Anthracene	ND	0.11	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.053	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.053	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.011	ug/l	
218-01-9	Chrysene	ND	0.11	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.0078	ug/l	
86-73-7	Fluorene	ND	0.11	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.021	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.1	0.012	ug/l	
91-20-3	Naphthalene	0.024	2.1	0.0085	ug/l	JB
85-01-8	Phenanthrene	ND	0.053	0.011	ug/l	
129-00-0	Pyrene	ND	0.11	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	98%		26-121%
321-60-8	2-Fluorobiphenyl	64%		28-107%
1718-51-0	Terphenyl-d14	91%		29-129%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-5		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-5F		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Groundwater Filtered		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**Dissolved Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.7 U	4.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	39.4 B	50	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.43 U	4.0	0.43	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	1.4 B	10	0.48	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	2.2 B	5.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	0.096 U	0.20	0.096	ug/l	1	10/07/15	10/08/15 EC	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	2.0 U	10	2.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	1.0 U	5.0	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA18530
- (2) Instrument QC Batch: MA18535
- (3) Prep QC Batch: MP25239
- (4) Prep QC Batch: MP25251

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL



# Report of Analysis

<b>Client Sample ID:</b> HMW-6		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-6		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95303.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.11  
 4

## Report of Analysis

<b>Client Sample ID:</b>	HMW-6	<b>Date Sampled:</b>	09/29/15
<b>Lab Sample ID:</b>	MC41909-6	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	124%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> HMW-6		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-6		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		80-116%
460-00-4	4-Bromofluorobenzene	105%		77-124%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> HMW-6		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-6		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I98259.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

**BN PAH List**

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0077	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0086	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.051	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.051	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0076	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	0.011	ug/l	
91-20-3	Naphthalene	0.017	2.0	0.0083	ug/l	JB
85-01-8	Phenanthrene	ND	0.051	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0087	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	94%		26-121%
321-60-8	2-Fluorobiphenyl	57%		28-107%
1718-51-0	Terphenyl-d14	82%		29-129%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.11  
**4**

# Report of Analysis

<b>Client Sample ID:</b> HMW-6	<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-6F	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

## Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.7 U	4.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	37.1 B	50	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.43 U	4.0	0.43	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	0.48 U	10	0.48	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	1.7 U	5.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	0.096 U	0.20	0.096	ug/l	1	10/07/15	10/08/15 EC	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	2.0 U	10	2.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	1.0 U	5.0	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA18530
- (2) Instrument QC Batch: MA18535
- (3) Prep QC Batch: MP25239
- (4) Prep QC Batch: MP25251

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL

4.12  
4

# Report of Analysis

<b>Client Sample ID:</b> HMW-7		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-7		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	L95304.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> HMW-7		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-7		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

4.13  
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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	104%		80-116%
460-00-4	4-Bromofluorobenzene	107%		77-124%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

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ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> HMW-7		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-7		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D BY SIM SW846 3510C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I98260.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	960 ml	1.0 ml
Run #2		

## BN PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0078	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0088	ug/l	
120-12-7	Anthracene	ND	0.10	0.010	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.052	0.025	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.016	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.052	0.020	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.014	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.016	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0077	ug/l	
86-73-7	Fluorene	ND	0.10	0.016	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.021	ug/l	
91-57-6	2-Methylnaphthalene	0.019	2.1	0.011	ug/l	JB
91-20-3	Naphthalene	0.020	2.1	0.0084	ug/l	JB
85-01-8	Phenanthrene	ND	0.052	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0089	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		26-121%
321-60-8	2-Fluorobiphenyl	55%		28-107%
1718-51-0	Terphenyl-d14	82%		29-129%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> HMW-7	<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-7F	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Groundwater Filtered	<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

## Dissolved Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1.7 U	4.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Barium	26.2 B	50	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Cadmium	0.43 U	4.0	0.43	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Chromium	0.48 U	10	0.48	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Lead	1.7 U	5.0	1.7	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Mercury	0.096 U	0.20	0.096	ug/l	1	10/07/15	10/08/15 EC	SW846 7470A <sup>2</sup>	SW846 7470A <sup>4</sup>
Selenium	2.0 U	10	2.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>
Silver	1.0 U	5.0	1.0	ug/l	1	10/05/15	10/06/15 EC	SW846 6010C <sup>1</sup>	SW846 3010A <sup>3</sup>

- (1) Instrument QC Batch: MA18530
- (2) Instrument QC Batch: MA18535
- (3) Prep QC Batch: MP25239
- (4) Prep QC Batch: MP25251

RL = Reporting Limit  
 MDL = Method Detection Limit

U = Indicates a result < MDL  
 B = Indicates a result > = MDL but < RL

4.14  
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# Report of Analysis

<b>Client Sample ID:</b> PZ-15D		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-8		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75531.D	1	10/09/15	KP	n/a	n/a	MSH2511
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.33	1.0	0.31	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.15  
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## Report of Analysis

<b>Client Sample ID:</b> PZ-15D		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-8		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-17S	<b>Date Sampled:</b>	09/28/15
<b>Lab Sample ID:</b>	MC41909-9	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75532.D	1	10/09/15	KP	n/a	n/a	MSH2514
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17S		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-9		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17S		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-9		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	105%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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# Report of Analysis

<b>Client Sample ID:</b> PZ-6S		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-10		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75533.D	1	10/09/15	KP	n/a	n/a	MSH2514
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> PZ-6S		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-10		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-6S		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-10		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> PZ-16S		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-11		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95293.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16S	<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-11	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C	
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		79-127%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16S		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-11		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		80-116%
460-00-4	4-Bromofluorobenzene	110%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-12		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95294.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.77	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	0.56	1.0	0.31	ug/l	J
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-12		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	1.3	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	119%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> PZ-16D		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-12		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		80-116%
460-00-4	4-Bromofluorobenzene	108%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-9		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-13		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95295.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-9		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-13		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-9		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-13		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		80-116%
460-00-4	4-Bromofluorobenzene	107%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-3		
<b>Lab Sample ID:</b> MC41909-14		<b>Date Sampled:</b> 09/29/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 10/02/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	L95274.D	50	10/13/15	MC	n/a	n/a	MSL4183
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	75.9	25	14	ug/l	
108-88-3	Toluene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	ND	50	12	ug/l	
1330-20-7	Xylene (total)	ND	50	11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	649	50	17	ug/l	
91-20-3	Naphthalene	ND	250	30	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	250	14	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	250	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		79-127%
2037-26-5	Toluene-D8	101%		80-116%
460-00-4	4-Bromofluorobenzene	108%		77-124%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-1D		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-15		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	H75534.D	1	10/09/15	KP	n/a	n/a	MSH2514

Run #1	Purge Volume
Run #2	5.0 ml

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-1D	<b>Date Sampled:</b>	09/28/15
<b>Lab Sample ID:</b>	MC41909-15	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-1D		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-15		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	107%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> PZ-15S		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-16		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75535.D	1	10/09/15	KP	n/a	n/a	MSH2514
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> PZ-15S		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-16		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-15S		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-16		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	100%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17D		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-17		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75536.D	1	10/09/15	KP	n/a	n/a	MSH2514
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	0.52	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.5	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-17D	<b>Date Sampled:</b>	09/28/15
<b>Lab Sample ID:</b>	MC41909-17	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	10.4	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-127%

ND = Not detected      MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-17D		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-17		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	106%		80-116%
460-00-4	4-Bromofluorobenzene	94%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-2		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-18		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95296.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	1.3	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	2.8	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	5.2	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-2	<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-18	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C	
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	9.8	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> PZ-2		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-18		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		80-116%
460-00-4	4-Bromofluorobenzene	107%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-13		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-19		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95297.D	1	10/13/15	KP	n/a	n/a	MSL4184
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	PZ-13	<b>Date Sampled:</b>	09/29/15
<b>Lab Sample ID:</b>	MC41909-19	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-13		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-19		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	102%		80-116%
460-00-4	4-Bromofluorobenzene	109%		77-124%

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-22S		<b>Date Sampled:</b> 09/29/15
<b>Lab Sample ID:</b> MC41909-20		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95267.D	1	10/13/15	MC	n/a	n/a	MSL4183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

**Aromatic Volatiles**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-127%
2037-26-5	Toluene-D8	100%		80-116%
460-00-4	4-Bromofluorobenzene	104%		77-124%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b> PZ-15		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-21		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H75537.D	1	10/09/15	KP	n/a	n/a	MSH2514
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-15		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-21		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		79-127%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-15		<b>Date Sampled:</b> 09/28/15
<b>Lab Sample ID:</b> MC41909-21		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	108%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> PS-22D		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-22		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95269.D	1	10/13/15	MC	n/a	n/a	MSL4183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-127%
2037-26-5	Toluene-D8	101%		80-116%
460-00-4	4-Bromofluorobenzene	109%		77-124%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-18S		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-23		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L95268.D	1	10/13/15	MC	n/a	n/a	MSL4183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-127%
2037-26-5	Toluene-D8	101%		80-116%
460-00-4	4-Bromofluorobenzene	108%		77-124%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-18D		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-24		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	L95270.D	50	10/13/15	MC	n/a	n/a	MSL4183
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	59.0	25	14	ug/l	
108-88-3	Toluene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	ND	50	12	ug/l	
1330-20-7	Xylene (total)	ND	50	11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	386	50	17	ug/l	
91-20-3	Naphthalene	ND	250	30	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	250	14	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	250	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		79-127%
2037-26-5	Toluene-D8	101%		80-116%
460-00-4	4-Bromofluorobenzene	108%		77-124%

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-7		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-25		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	L95271.D	5	10/13/15	MC	n/a	n/a	MSL4183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	37.0	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	5.0	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	1.1	5.0	1.1	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	632	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	25	3.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-127%
2037-26-5	Toluene-D8	102%		80-116%
460-00-4	4-Bromofluorobenzene	107%		77-124%

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.32  
**4**

# Report of Analysis

<b>Client Sample ID:</b> PZ-12		
<b>Lab Sample ID:</b> MC41909-26		<b>Date Sampled:</b> 09/30/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 10/02/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	L95272.D	5	10/13/15	MC	n/a	n/a	MSL4183
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	10.7	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	ND	5.0	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	165	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	25	3.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-127%
2037-26-5	Toluene-D8	102%		80-116%
460-00-4	4-Bromofluorobenzene	106%		77-124%

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.33  
**4**

## Report of Analysis

<b>Client Sample ID:</b> PZ-20		
<b>Lab Sample ID:</b> MC41909-27		<b>Date Sampled:</b> 09/30/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 10/02/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	L95273.D	5	10/13/15	MC	n/a	n/a	MSL4183
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	38.7	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	ND	5.0	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	104	5.0	1.7	ug/l	
91-20-3	Naphthalene	ND	25	3.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-127%
2037-26-5	Toluene-D8	102%		80-116%
460-00-4	4-Bromofluorobenzene	104%		77-124%

(a) Elevated RL due to dilution required for matrix interference.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-19		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-28		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G146548.D	1	10/14/15	CB	n/a	n/a	MSG5487
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.58	0.50	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		79-127%
2037-26-5	Toluene-D8	99%		80-116%
460-00-4	4-Bromofluorobenzene	100%		77-124%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b>	BIW-4	<b>Date Sampled:</b>	09/30/15
<b>Lab Sample ID:</b>	MC41909-29	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C	<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G146555.D	20	10/14/15	CB	n/a	n/a	MSG5487
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7.0	10	5.4	ug/l	J
108-88-3	Toluene	ND	20	5.9	ug/l	
100-41-4	Ethylbenzene	ND	20	4.8	ug/l	
1330-20-7	Xylene (total)	ND	20	4.3	ug/l	
1634-04-4	Methyl Tert Butyl Ether	105	20	7.0	ug/l	
91-20-3	Naphthalene	ND	100	12	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	100	5.7	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	100	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-127%
2037-26-5	Toluene-D8	97%		80-116%
460-00-4	4-Bromofluorobenzene	98%		77-124%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> PZ-21		
<b>Lab Sample ID:</b> MC41909-30		<b>Date Sampled:</b> 09/30/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 10/02/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	G146560.D	50	10/14/15	CB	n/a	n/a	MSG5487
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

### Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	280	25	14	ug/l	
108-88-3	Toluene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	ND	50	12	ug/l	
1330-20-7	Xylene (total)	ND	50	11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	154	50	17	ug/l	
91-20-3	Naphthalene	ND	250	30	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	250	14	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	250	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-127%
2037-26-5	Toluene-D8	97%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

(a) Dilution required due to high sediment level.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-31		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	U33033.D	5	10/14/15	AD	n/a	n/a	MSU1352
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/l	
71-43-2	Benzene	ND	2.5	1.4	ug/l	
108-86-1	Bromobenzene	ND	25	1.3	ug/l	
74-97-5	Bromochloromethane	ND	25	1.8	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	0.89	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
74-83-9	Bromomethane	ND	10	3.9	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	15	ug/l	
104-51-8	n-Butylbenzene	ND	25	2.5	ug/l	
135-98-8	sec-Butylbenzene	ND	25	2.5	ug/l	
98-06-6	tert-Butylbenzene	ND	25	2.9	ug/l	
75-15-0	Carbon disulfide	2.5	25	0.93	ug/l	JB
56-23-5	Carbon tetrachloride	ND	5.0	1.7	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.2	ug/l	
75-00-3	Chloroethane	ND	10	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.0	ug/l	
74-87-3	Chloromethane	ND	10	2.4	ug/l	
95-49-8	o-Chlorotoluene	ND	25	3.0	ug/l	
106-43-4	p-Chlorotoluene	ND	25	2.3	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	4.2	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.7	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.9	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	1.4	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	1.6	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	1.1	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.38  
 4

# Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-31		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	1.4	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	8.4	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	1.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	1.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	2.2	ug/l	
100-41-4	Ethylbenzene	8.4	5.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	25	2.3	ug/l	
591-78-6	2-Hexanone	ND	50	13	ug/l	
74-88-4	Iodomethane	ND	25	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	25	1.3	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	1.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	3.8	ug/l	
74-95-3	Methylene bromide	ND	25	1.5	ug/l	
75-09-2	Methylene chloride	ND	10	1.3	ug/l	
91-20-3	Naphthalene	56.8	25	3.0	ug/l	
103-65-1	n-Propylbenzene	2.0	25	1.5	ug/l	J
100-42-5	Styrene	ND	25	1.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	1.5	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.0	ug/l	
108-88-3	Toluene	8.1	5.0	1.5	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	3.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	3.7	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/l	
79-01-6	Trichloroethene	ND	5.0	1.2	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	2.4	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	40.0	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	10.8	25	1.0	ug/l	J
108-05-4	Vinyl Acetate	ND	25	7.2	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.3	ug/l	
	m,p-Xylene	51.9	5.0	2.3	ug/l	
95-47-6	o-Xylene	25.9	5.0	1.1	ug/l	
1330-20-7	Xylene (total)	77.8	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		79-127%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-14S		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-31		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	101%		80-116%
460-00-4	4-Bromofluorobenzene	102%		77-124%

(a) Elevated RL due to dilution required for matrix interference (foaming).

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> PZ-14D		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-32		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	U33030.D	5	10/14/15	AD	n/a	n/a	MSU1352
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/l	
71-43-2	Benzene	ND	2.5	1.4	ug/l	
108-86-1	Bromobenzene	ND	25	1.3	ug/l	
74-97-5	Bromochloromethane	ND	25	1.8	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	0.89	ug/l	
75-25-2	Bromoform	ND	5.0	2.0	ug/l	
74-83-9	Bromomethane	ND	10	3.9	ug/l	
78-93-3	2-Butanone (MEK)	ND	50	15	ug/l	
104-51-8	n-Butylbenzene	ND	25	2.5	ug/l	
135-98-8	sec-Butylbenzene	ND	25	2.5	ug/l	
98-06-6	tert-Butylbenzene	ND	25	2.9	ug/l	
75-15-0	Carbon disulfide	2.9	25	0.93	ug/l	JB
56-23-5	Carbon tetrachloride	ND	5.0	1.7	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.2	ug/l	
75-00-3	Chloroethane	2.7	10	2.5	ug/l	J
67-66-3	Chloroform	ND	5.0	2.0	ug/l	
74-87-3	Chloromethane	ND	10	2.4	ug/l	
95-49-8	o-Chlorotoluene	ND	25	3.0	ug/l	
106-43-4	p-Chlorotoluene	ND	25	2.3	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	4.2	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	1.7	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.2	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.9	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.7	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.4	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	1.4	ug/l	
156-59-2	cis-1,2-Dichloroethene	9.1	5.0	1.6	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.4	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	1.1	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Report of Analysis

<b>Client Sample ID:</b>	PZ-14D	<b>Date Sampled:</b>	09/30/15
<b>Lab Sample ID:</b>	MC41909-32	<b>Date Received:</b>	10/02/15
<b>Matrix:</b>	AQ - Ground Water	<b>Percent Solids:</b>	n/a
<b>Method:</b>	SW846 8260C		
<b>Project:</b>	OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	25	1.4	ug/l	
594-20-7	2,2-Dichloropropane	ND	25	8.4	ug/l	
563-58-6	1,1-Dichloropropene	ND	25	1.2	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	1.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	2.2	ug/l	
100-41-4	Ethylbenzene	ND	5.0	1.2	ug/l	
87-68-3	Hexachlorobutadiene	ND	25	2.3	ug/l	
591-78-6	2-Hexanone	ND	50	13	ug/l	
74-88-4	Iodomethane	ND	25	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	25	1.3	ug/l	
99-87-6	p-Isopropyltoluene	ND	25	1.6	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	3.8	ug/l	
74-95-3	Methylene bromide	ND	25	1.5	ug/l	
75-09-2	Methylene chloride	ND	10	1.3	ug/l	
91-20-3	Naphthalene	ND	25	3.0	ug/l	
103-65-1	n-Propylbenzene	ND	25	1.5	ug/l	
100-42-5	Styrene	ND	25	1.4	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.0	1.2	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	1.5	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	1.0	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	25	3.9	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	25	3.7	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.1	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.6	ug/l	
79-01-6	Trichloroethene	1.4	5.0	1.2	ug/l	J
75-69-4	Trichlorofluoromethane	ND	5.0	2.4	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	25	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	25	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	25	7.2	ug/l	
75-01-4	Vinyl chloride	107	5.0	2.3	ug/l	
	m,p-Xylene	ND	5.0	2.3	ug/l	
95-47-6	o-Xylene	ND	5.0	1.1	ug/l	
1330-20-7	Xylene (total)	ND	5.0	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	115%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-14D		<b>Date Sampled:</b> 09/30/15
<b>Lab Sample ID:</b> MC41909-32		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	83%		80-116%
460-00-4	4-Bromofluorobenzene	90%		77-124%

(a) Elevated RL due to dilution required for matrix interference (foaming).

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-4S		
<b>Lab Sample ID:</b> MC41909-33		<b>Date Sampled:</b> 10/01/15
<b>Matrix:</b> AQ - Ground Water		<b>Date Received:</b> 10/02/15
<b>Method:</b> SW846 8260C		<b>Percent Solids:</b> n/a
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	G146447.D	20	10/10/15	CB	n/a	n/a	MSG5483
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

## Aromatic Volatiles

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	364	10	5.4	ug/l	
108-88-3	Toluene	ND	20	5.9	ug/l	
100-41-4	Ethylbenzene	22.4	20	4.8	ug/l	
1330-20-7	Xylene (total)	15.1	20	4.3	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	464	20	7.0	ug/l	
91-20-3	Naphthalene	ND	100	12	ug/l	
95-63-6	1,2,4-Trimethylbenzene	9.9	100	5.7	ug/l	J
108-67-8	1,3,5-Trimethylbenzene	ND	100	4.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		79-127%
2037-26-5	Toluene-D8	100%		80-116%
460-00-4	4-Bromofluorobenzene	100%		77-124%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> PZ-4D		<b>Date Sampled:</b> 10/01/15
<b>Lab Sample ID:</b> MC41909-34		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G146442.D	1	10/10/15	CB	n/a	n/a	MSG5483
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

**Aromatic Volatiles**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.95	1.0	0.35	ug/l	J
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-127%
2037-26-5	Toluene-D8	98%		80-116%
460-00-4	4-Bromofluorobenzene	101%		77-124%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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# Report of Analysis

<b>Client Sample ID:</b> PZ-10		<b>Date Sampled:</b> 10/01/15
<b>Lab Sample ID:</b> MC41909-35		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G146443.D	1	10/10/15	CB	n/a	n/a	MSG5483
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

**VOA 8260 List**

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	2.2	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	3.7	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	0.99	1.0	0.22	ug/l	J
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-10	<b>Date Sampled:</b> 10/01/15
<b>Lab Sample ID:</b> MC41909-35	<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C	
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI	

## VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-127%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-10		<b>Date Sampled:</b> 10/01/15
<b>Lab Sample ID:</b> MC41909-35		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

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**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		80-116%
460-00-4	4-Bromofluorobenzene	101%		77-124%

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ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> PZ-11		<b>Date Sampled:</b> 10/01/15
<b>Lab Sample ID:</b> MC41909-36		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G146444.D	1	10/10/15	CB	n/a	n/a	MSG5483
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

**Aromatic Volatiles**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.1	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-127%
2037-26-5	Toluene-D8	100%		80-116%
460-00-4	4-Bromofluorobenzene	103%		77-124%

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

4.43  
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## Report of Analysis

<b>Client Sample ID:</b> PZ-8		<b>Date Sampled:</b> 10/01/15
<b>Lab Sample ID:</b> MC41909-37		<b>Date Received:</b> 10/02/15
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 <sup>a</sup>	G146763.D	5	10/20/15	CB	n/a	n/a	MSG5495
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

**Aromatic Volatiles**

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	314	2.5	1.4	ug/l	
108-88-3	Toluene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	47.5	5.0	1.2	ug/l	
1330-20-7	Xylene (total)	19.9	5.0	1.1	ug/l	
1634-04-4	Methyl Tert Butyl Ether	133	5.0	1.7	ug/l	
91-20-3	Naphthalene	25.9	25	3.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	27.9	25	1.4	ug/l	
108-67-8	1,3,5-Trimethylbenzene	3.0	25	2.4	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		79-127%
2037-26-5	Toluene-D8	99%		80-116%
460-00-4	4-Bromofluorobenzene	97%		77-124%

(a) Sample analyzed past recommended hold time.

ND = Not detected      MDL = Method Detection Limit      J = Indicates an estimated value  
 RL = Reporting Limit      B = Indicates analyte found in associated method blank  
 E = Indicates value exceeds calibration range      N = Indicates presumptive evidence of a compound

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## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



**CHAIN OF CUSTODY**

Accutest Laboratories of New England  
 495 Technology Center West, Building One  
 TEL: 508-481-6200 · FAX: 508-481-7753  
 www.accutest.com

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)										Matrix Codes	
Company Name <b>O+M, Inc.</b>		Project Name <b>Tyco - Marinette FTC</b>				VOC PAHs PCBs Lab to filter										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address <b>4830 N. Berkeley</b>		Street <b>2700 Industrial Pkwy S</b>															
City State Zip <b>Whitefish Bay WI 53217</b>		City <b>Marinette</b>															
Project Contact <b>Eric Franzen</b>		Company Name <b>Tyco</b>															
Phone # <b>414-963-6210</b>		Street Address															
Sampler(s) Name(s) <b>Eric Franzen</b>		Project ID <b>493</b>				Billing Information (if different from Report to)										Matrix Codes	
MEOH/DI Vial #		Collection				Number of preserved Bottles										LAB USE ONLY	
Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	ICI	NACH	HNCH	HECH	NONE	DI W/ST	MECH	ENCORE	Biofilm		
-1F	HMW-1	9/29/15	8:50	ETF	W	6	3									X	X
-2F	HMW-2		11:00													X	X
-3F	HMW-3		11:05													X	X
-4F	HMW-4		11:10													X	X
-5F	HMW-5		15:15													X	X
-6F	HMW-6		2:55													X	X
-7F	HMW-7		15:05													X	X
-8	PZ-15D	9/28/15	11:45	PB	W	3	3									X	X
-9	PZ-17S		14:10													X	X
-10	PZ-6S		14:55													X	X
-11	PZ-16S	9/29/15	8:25													X	X
-12	PZ-16D	9/29/15	9:40													X	X
Turnaround Time (Business days)		Approved By (Accutest PM): / Date:				Data Deliverable Information										Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY						<input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary											
Emergency & Rush TIA data available VIA Lablink																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:
<i>ETF</i>	10/1/15 14:00	<i>[Signature]</i>	10/1/15	<i>[Signature]</i>	2/9/16												
Relinquished by Sampler:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:
<i>FZX</i>	10-2-15 9:30	<i>[Signature]</i>		<i>[Signature]</i>													
Relinquished by:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:	Received By:	Date/Time:
Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Preserved where applicable		On Ice		Cupler Temp.											
		<input type="checkbox"/> Not Intact		P		0.8° - 6.1° C											

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MC41909: Chain of Custody

Page 1 of 4



FED-EX Tracking #	Boiler Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information		Project Information										Requested Analysis ( see TEST CODE sheet)										Matrix Codes	
Company Name <b>O+M, Inc.</b>		Project Name <b>Tyco-Marquette FTC</b>										<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PVOCS</div> </div>										DIV - Drinking Water GW - Ground Water WW - Water SW - Surface Water SD - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank	
Street Address <b>4830 N. Berkeley</b>		Street: <b>2700 Industrial Pkwy</b>																					
City State Zip <b>Whitefish Bay WI 53217</b>		City: <b>Marquette</b>																					
Project Contact <b>Eric Frauen</b>		Project # <b>493</b>																					
Phone # Fax # <b>414-963-6210</b>		Client PO# <b>493</b>																					
Sampler(s) Name(s) Phone # <b>Pete Burton</b>		Project Manager <b>Eric Frauen</b>																					
		Attention: PO#																					
Billing Information ( If different from Report to)		Company Name <b>Tyco</b>																					
		Street Address																					
Field ID / Point of Collection		MECH/DI Vial #	Date		Time		Sampled by	Matrix	# of bottles	HCl	HNO3	H2SO4	NONE	DI Water	ENCORE	Biosaline	LAB USE ONLY						
-13 PZ-9			9/29/15		12:50		PB	W	3	3							X						
-14 PZ-3			9/29/15		15:00												X						
-15 PZ-1D			9/28/15		10:20												X						
-16 PZ-15S			↓		11:15												X						
-17 PZ-17D			↓		13:35												X						
-18 PZ-2			9/29/15		10:25												X						
-19 PZ-13			↓		11:45												X						
-20 PZ-22S			↓		15:45		↓	↓	↓	↓							X						
-21 PZ-1S			9/28/15		9:30												X						
-22 PZ-22D			9/30/15		7:45												X						
-23 PZ-18S			9/30/15		8:35												X						
-24 PZ-18D			↓		9:10		↓	↓	↓	↓							X						
Turnaround Time ( Business days)		Approved By (Accutest PM): / Date:										<input checked="" type="checkbox"/> Commercial "A" ( Level 1 ) <input type="checkbox"/> NYASP Category A <input type="checkbox"/> Commercial "B" ( Level 2 ) <input type="checkbox"/> NYASP Category B <input type="checkbox"/> FULLT1 ( Level 3+4 ) <input type="checkbox"/> State Forms <input type="checkbox"/> CT RCP <input type="checkbox"/> EDD Format <input type="checkbox"/> MA MCP <input type="checkbox"/> Other _____ Commercial "A" = Results Only Commercial "B" = Results + QC Summary										Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A only available VIA Lablink																							
Relinquished by: <i>[Signature]</i>		Date Time: 10/1/15 14:00		Received By: <i>[Signature]</i>		Date Time: 10/1/15		Relinquished By: <i>[Signature]</i>		Date Time: 10/1/15		Received By: <i>[Signature]</i>		Date Time: 10/1/15		Relinquished By: <i>[Signature]</i>		Date Time: 10/1/15		Received By: <i>[Signature]</i>		Date Time: 10/1/15	
Relinquished by: <b>FEDX</b>		Date Time: 10-2-15		Received By: <i>[Signature]</i>		Date Time: 10-2-15		Relinquished By: <i>[Signature]</i>		Date Time: 10-2-15		Received By: <i>[Signature]</i>		Date Time: 10-2-15		Relinquished By: <i>[Signature]</i>		Date Time: 10-2-15		Received By: <i>[Signature]</i>		Date Time: 10-2-15	
Relinquished by: _____		Date Time: _____		Received By: _____		Date Time: _____		Relinquished By: _____		Date Time: _____		Received By: _____		Date Time: _____		Relinquished By: _____		Date Time: _____		Received By: _____		Date Time: _____	
Custody Seal #		<input type="checkbox"/> Intact    Preserved where applicable <input type="checkbox"/> Not intact										On Ice    Cooler Temp: <b>0.9-1.1 °C</b>											

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## Accutest Laboratories Sample Receipt Summary

**Accutest Job Number:** MC41909      **Client:** MC41909      **Project:** 493  
**Date / Time Received:** 10/2/2015 9:30:00 AM      **Delivery Method:** \_\_\_\_\_      **Airbill #'s:** \_\_\_\_\_  
**Cooler Temps (Initial/Adjusted):** #: (1.9/1.9); #1: (1.1/1.1);

**Cooler Security**

	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

**Cooler Temperature**

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Thermometer ID:	<u>G1;</u>		
3. Cooler media:	<u>Ice (Bag)</u>		
4. No. Coolers:	<u>1</u>		

**Quality Control Preservation**

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

**Sample Integrity - Documentation**

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

**Sample Integrity - Condition**

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	<u>Intact</u>		

**Sample Integrity - Instructions**

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Comments

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## GC/MS Volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB1	H75520.D	1	10/09/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB1	H75520.D	1	10/09/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB1	H75520.D	1	10/09/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	104%	79-127%
2037-26-5	Toluene-D8	104%	80-116%
460-00-4	4-Bromofluorobenzene	94%	77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2514-MB	H75520.D	1	10/09/15	KP	n/a	n/a	MSH2514

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-9, MC41909-10, MC41909-15, MC41909-16, MC41909-17, MC41909-21

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	



## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2514-MB	H75520.D	1	10/09/15	KP	n/a	n/a	MSH2514

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-9, MC41909-10, MC41909-15, MC41909-16, MC41909-17, MC41909-21

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2514-MB	H75520.D	1	10/09/15	KP	n/a	n/a	MSH2514

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-9, MC41909-10, MC41909-15, MC41909-16, MC41909-17, MC41909-21

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	104%	79-127%
2037-26-5	Toluene-D8	104%	80-116%
460-00-4	4-Bromofluorobenzene	94%	77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-MB	G146435.D	1	10/09/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-MB	G146435.D	1	10/09/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-MB	G146435.D	1	10/09/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	108%	79-127%
2037-26-5	Toluene-D8	99%	80-116%
460-00-4	4-Bromofluorobenzene	102%	77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4183-MB	L95259.D	1	10/12/15	MC	n/a	n/a	MSL4183

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-14, MC41909-20, MC41909-22, MC41909-23, MC41909-24, MC41909-25, MC41909-26, MC41909-27

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	107%	79-127%
2037-26-5	Toluene-D8	99%	80-116%
460-00-4	4-Bromofluorobenzene	104%	77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4184-MB	L95290.D	1	10/13/15	KP	n/a	n/a	MSL4184

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-1, MC41909-2, MC41909-3, MC41909-4, MC41909-5, MC41909-6, MC41909-7, MC41909-11, MC41909-12, MC41909-13, MC41909-18, MC41909-19

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4184-MB	L95290.D	1	10/13/15	KP	n/a	n/a	MSL4184

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-1, MC41909-2, MC41909-3, MC41909-4, MC41909-5, MC41909-6, MC41909-7, MC41909-11, MC41909-12, MC41909-13, MC41909-18, MC41909-19

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	



## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4184-MB	L95290.D	1	10/13/15	KP	n/a	n/a	MSL4184

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-1, MC41909-2, MC41909-3, MC41909-4, MC41909-5, MC41909-6, MC41909-7, MC41909-11, MC41909-12, MC41909-13, MC41909-18, MC41909-19

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	113% 79-127%
2037-26-5	Toluene-D8	101% 80-116%
460-00-4	4-Bromofluorobenzene	106% 77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5487-MB	G146542.D	1	10/14/15	CB	n/a	n/a	MSG5487

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-28, MC41909-29, MC41909-30

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	108% 79-127%
2037-26-5	Toluene-D8	98% 80-116%
460-00-4	4-Bromofluorobenzene	106% 77-124%

# Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1352-MB	U33026.D	1	10/14/15	AD	n/a	n/a	MSU1352

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-31, MC41909-32

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	0.81	5.0	0.19	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC41909  
**Account:** TINJP Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1352-MB	U33026.D	1	10/14/15	AD	n/a	n/a	MSU1352

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-31, MC41909-32

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	0.28	2.0	0.27	ug/l	J
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1352-MB	U33026.D	1	10/14/15	AD	n/a	n/a	MSU1352

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-31, MC41909-32

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	103%	79-127%
2037-26-5	Toluene-D8	96%	80-116%
460-00-4	4-Bromofluorobenzene	102%	77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4185-MB	L95315.D	1	10/14/15	MC	n/a	n/a	MSL4185

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-2, MC41909-4

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	102%	79-127%
2037-26-5	Toluene-D8	97%	80-116%
460-00-4	4-Bromofluorobenzene	101%	77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5495-MB	G146753.D	1	10/19/15	CB	n/a	n/a	MSG5495

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-37

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.27	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 79-127%
2037-26-5	Toluene-D8	98% 80-116%
460-00-4	4-Bromofluorobenzene	100% 77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB	H75437.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MSH2511-BS1, MC41757-3MS, MC41757-3MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.83	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.29	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.23	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	



## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB	H75437.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MSH2511-BS1, MC41757-3MS, MC41757-3MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.45	ug/l	
591-78-6	2-Hexanone	ND	10	2.7	ug/l	
74-88-4	Iodomethane	ND	5.0	0.50	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.27	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.77	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.29	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.74	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	1.4	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.47	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-MB	H75437.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MSH2511-BS1, MC41757-3MS, MC41757-3MSD

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 79-127%
2037-26-5	Toluene-D8	99% 80-116%
460-00-4	4-Bromofluorobenzene	96% 77-124%

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-MB1	G146516.D	1	10/13/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41827-8MS, MC41827-8MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.0	ug/l	
71-43-2	Benzene	ND	0.50	0.27	ug/l	
108-86-1	Bromobenzene	ND	5.0	0.26	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.37	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.18	ug/l	
75-25-2	Bromoform	ND	1.0	0.39	ug/l	
74-83-9	Bromomethane	ND	2.0	0.79	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	3.0	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	0.50	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	0.57	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.76	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.34	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.24	ug/l	
75-00-3	Chloroethane	ND	2.0	0.49	ug/l	
67-66-3	Chloroform	ND	1.0	0.40	ug/l	
74-87-3	Chloromethane	ND	2.0	0.49	ug/l	
95-49-8	o-Chlorotoluene	ND	5.0	0.60	ug/l	
106-43-4	p-Chlorotoluene	ND	5.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.8	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.61	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.24	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.37	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.53	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.31	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.48	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	ND	5.0	0.63	ug/l	
594-20-7	2,2-Dichloropropane	ND	5.0	1.7	ug/l	
563-58-6	1,1-Dichloropropene	ND	5.0	0.72	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.27	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-MB1	G146516.D	1	10/13/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41827-8MS, MC41827-8MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.24	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.3	ug/l	
591-78-6	2-Hexanone	ND	10	4.6	ug/l	
74-88-4	Iodomethane	ND	5.0	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.61	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	0.32	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.35	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	2.4	ug/l	
74-95-3	Methylene bromide	ND	5.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.27	ug/l	
91-20-3	Naphthalene	ND	5.0	0.61	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	0.57	ug/l	
100-42-5	Styrene	ND	5.0	0.28	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.48	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.29	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.29	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.78	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.7	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.32	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.25	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.47	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	0.39	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.29	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.48	ug/l	
108-05-4	Vinyl Acetate	ND	5.0	3.2	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.45	ug/l	
	m,p-Xylene	ND	1.0	0.82	ug/l	
95-47-6	o-Xylene	ND	1.0	0.22	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.22	ug/l	

## Method Blank Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-MB1	G146516.D	1	10/13/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41827-8MS, MC41827-8MSD

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	98% 79-127%
2037-26-5	Toluene-D8	98% 80-116%
460-00-4	4-Bromofluorobenzene	99% 77-124%

# Blank Spike Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-BS1	H75517.D	1	10/09/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	58.7	117	10-200
71-43-2	Benzene	50	47.1	94	74-124
108-86-1	Bromobenzene	50	42.8	86	80-117
74-97-5	Bromochloromethane	50	48.6	97	73-130
75-27-4	Bromodichloromethane	50	50.5	101	76-136
75-25-2	Bromoform	50	50.0	100	63-139
74-83-9	Bromomethane	50	50.7	101	49-161
78-93-3	2-Butanone (MEK)	50	56.9	114	44-191
104-51-8	n-Butylbenzene	50	50.6	101	84-134
135-98-8	sec-Butylbenzene	50	46.5	93	76-125
98-06-6	tert-Butylbenzene	50	45.9	92	74-123
75-15-0	Carbon disulfide	50	38.2	76	45-138
56-23-5	Carbon tetrachloride	50	53.9	108	64-149
108-90-7	Chlorobenzene	50	43.3	87	73-114
75-00-3	Chloroethane	50	50.4	101	43-165
67-66-3	Chloroform	50	49.0	98	72-132
74-87-3	Chloromethane	50	44.2	88	30-173
95-49-8	o-Chlorotoluene	50	44.5	89	75-116
106-43-4	p-Chlorotoluene	50	44.4	89	78-116
96-12-8	1,2-Dibromo-3-chloropropane	50	58.8	118	50-157
124-48-1	Dibromochloromethane	50	43.5	87	75-133
106-93-4	1,2-Dibromoethane	50	45.9	92	72-133
95-50-1	1,2-Dichlorobenzene	50	47.6	95	73-122
541-73-1	1,3-Dichlorobenzene	50	45.5	91	76-117
106-46-7	1,4-Dichlorobenzene	50	45.1	90	74-120
75-71-8	Dichlorodifluoromethane	50	17.4	35	30-180
75-34-3	1,1-Dichloroethane	50	47.1	94	62-130
107-06-2	1,2-Dichloroethane	50	48.4	97	65-140
75-35-4	1,1-Dichloroethene	50	46.3	93	57-132
156-59-2	cis-1,2-Dichloroethene	50	49.0	98	72-131
156-60-5	trans-1,2-Dichloroethene	50	46.9	94	69-127
78-87-5	1,2-Dichloropropane	50	48.0	96	74-130
142-28-9	1,3-Dichloropropane	50	47.4	95	80-129
594-20-7	2,2-Dichloropropane	50	53.7	107	54-162
563-58-6	1,1-Dichloropropene	50	46.4	93	75-116
10061-01-5	cis-1,3-Dichloropropene	50	52.6	105	86-141

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-BS1	H75517.D	1	10/09/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-02-6	trans-1,3-Dichloropropene	50	46.8	94	80-134
100-41-4	Ethylbenzene	50	47.2	94	76-125
87-68-3	Hexachlorobutadiene	50	56.4	113	64-154
591-78-6	2-Hexanone	50	57.8	116	35-200
74-88-4	Iodomethane	50	43.8	88	50-154
98-82-8	Isopropylbenzene	50	43.6	87	74-121
99-87-6	p-Isopropyltoluene	50	47.3	95	84-128
1634-04-4	Methyl Tert Butyl Ether	50	51.1	102	67-145
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.9	104	61-155
74-95-3	Methylene bromide	50	50.7	101	75-124
75-09-2	Methylene chloride	50	48.3	97	62-137
91-20-3	Naphthalene	50	57.5	115	24-164
103-65-1	n-Propylbenzene	50	43.2	86	76-120
100-42-5	Styrene	50	44.0	88	74-132
630-20-6	1,1,1,2-Tetrachloroethane	50	48.9	98	71-136
79-34-5	1,1,2,2-Tetrachloroethane	50	51.1	102	65-145
127-18-4	Tetrachloroethene	50	44.8	90	73-122
108-88-3	Toluene	50	48.4	97	80-122
87-61-6	1,2,3-Trichlorobenzene	50	57.3	115	33-170
120-82-1	1,2,4-Trichlorobenzene	50	57.3	115	43-159
71-55-6	1,1,1-Trichloroethane	50	52.1	104	68-137
79-00-5	1,1,2-Trichloroethane	50	50.2	100	76-134
79-01-6	Trichloroethene	50	48.1	96	80-125
75-69-4	Trichlorofluoromethane	50	42.7	85	56-166
96-18-4	1,2,3-Trichloropropane	50	49.7	99	65-147
95-63-6	1,2,4-Trimethylbenzene	50	48.0	96	79-124
108-67-8	1,3,5-Trimethylbenzene	50	49.1	98	80-130
108-05-4	Vinyl Acetate	50	56.9	114	72-200
75-01-4	Vinyl chloride	50	45.3	91	39-176
	m,p-Xylene	100	96.2	96	75-121
95-47-6	o-Xylene	50	46.3	93	71-123
1330-20-7	Xylene (total)	150	142	95	74-122

\* = Outside of Control Limits.

# Blank Spike Summary

**Job Number:** MC41909  
**Account:** TINJP Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2511-BS1	H75517.D	1	10/09/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	79-127%
2037-26-5	Toluene-D8	103%	80-116%
460-00-4	4-Bromofluorobenzene	94%	77-124%

\* = Outside of Control Limits.



# Blank Spike Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5487-BS	G146540.D	1	10/13/15	CB	n/a	n/a	MSG5487

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-28, MC41909-29, MC41909-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	44.0	88	74-124
100-41-4	Ethylbenzene	50	52.8	106	76-125
1634-04-4	Methyl Tert Butyl Ether	50	52.2	104	67-145
91-20-3	Naphthalene	50	46.3	93	24-164
108-88-3	Toluene	50	51.1	102	80-122
95-63-6	1,2,4-Trimethylbenzene	50	52.7	105	79-124
108-67-8	1,3,5-Trimethylbenzene	50	55.9	112	80-130
1330-20-7	Xylene (total)	150	163	109	74-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	79-127%
2037-26-5	Toluene-D8	102%	80-116%
460-00-4	4-Bromofluorobenzene	94%	77-124%

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2514-BS	H75517.D	1	10/09/15	KP	n/a	n/a	MSH2514
MSH2514-BSD	H75518.D	1	10/09/15	KP	n/a	n/a	MSH2514

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-9, MC41909-10, MC41909-15, MC41909-16, MC41909-17, MC41909-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	58.7	117	37.0	74	45* a	10-200/25
71-43-2	Benzene	50	47.1	94	45.4	91	4	74-124/25
108-86-1	Bromobenzene	50	42.8	86	42.0	84	2	80-117/25
74-97-5	Bromochloromethane	50	48.6	97	46.8	94	4	73-130/25
75-27-4	Bromodichloromethane	50	50.5	101	48.5	97	4	76-136/25
75-25-2	Bromoform	50	50.0	100	49.1	98	2	63-139/25
74-83-9	Bromomethane	50	50.7	101	48.6	97	4	49-161/25
78-93-3	2-Butanone (MEK)	50	56.9	114	48.4	97	16	44-191/25
104-51-8	n-Butylbenzene	50	50.6	101	48.1	96	5	84-134/25
135-98-8	sec-Butylbenzene	50	46.5	93	44.9	90	4	76-125/25
98-06-6	tert-Butylbenzene	50	45.9	92	44.6	89	3	74-123/25
75-15-0	Carbon disulfide	50	38.2	76	35.6	71	7	45-138/25
56-23-5	Carbon tetrachloride	50	53.9	108	51.6	103	4	64-149/25
108-90-7	Chlorobenzene	50	43.3	87	42.5	85	2	73-114/25
75-00-3	Chloroethane	50	50.4	101	48.3	97	4	43-165/25
67-66-3	Chloroform	50	49.0	98	46.7	93	5	72-132/25
74-87-3	Chloromethane	50	44.2	88	42.5	85	4	30-173/25
95-49-8	o-Chlorotoluene	50	44.5	89	42.8	86	4	75-116/25
106-43-4	p-Chlorotoluene	50	44.4	89	43.2	86	3	78-116/25
96-12-8	1,2-Dibromo-3-chloropropane	50	58.8	118	59.6	119	1	50-157/25
124-48-1	Dibromochloromethane	50	43.5	87	42.9	86	1	75-133/25
106-93-4	1,2-Dibromoethane	50	45.9	92	45.8	92	0	72-133/25
95-50-1	1,2-Dichlorobenzene	50	47.6	95	46.3	93	3	73-122/25
541-73-1	1,3-Dichlorobenzene	50	45.5	91	44.5	89	2	76-117/25
106-46-7	1,4-Dichlorobenzene	50	45.1	90	43.8	88	3	74-120/25
75-71-8	Dichlorodifluoromethane	50	17.4	35	16.8	34	4	30-180/25
75-34-3	1,1-Dichloroethane	50	47.1	94	44.9	90	5	62-130/25
107-06-2	1,2-Dichloroethane	50	48.4	97	47.3	95	2	65-140/25
75-35-4	1,1-Dichloroethene	50	46.3	93	44.1	88	5	57-132/25
156-59-2	cis-1,2-Dichloroethene	50	49.0	98	46.8	94	5	72-131/25
156-60-5	trans-1,2-Dichloroethene	50	46.9	94	44.9	90	4	69-127/25
78-87-5	1,2-Dichloropropane	50	48.0	96	47.5	95	1	74-130/25
142-28-9	1,3-Dichloropropane	50	47.4	95	47.5	95	0	80-129/25
594-20-7	2,2-Dichloropropane	50	53.7	107	50.8	102	6	54-162/25
563-58-6	1,1-Dichloropropene	50	46.4	93	44.4	89	4	75-116/25
10061-01-5	cis-1,3-Dichloropropene	50	52.6	105	50.8	102	3	86-141/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2514-BS	H75517.D	1	10/09/15	KP	n/a	n/a	MSH2514
MSH2514-BSD	H75518.D	1	10/09/15	KP	n/a	n/a	MSH2514

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-9, MC41909-10, MC41909-15, MC41909-16, MC41909-17, MC41909-21

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	46.8	94	45.9	92	2	80-134/25
100-41-4	Ethylbenzene	50	47.2	94	46.4	93	2	76-125/25
87-68-3	Hexachlorobutadiene	50	56.4	113	53.0	106	6	64-154/25
591-78-6	2-Hexanone	50	57.8	116	44.6	89	26* a	35-200/25
74-88-4	Iodomethane	50	43.8	88	41.9	84	4	50-154/25
98-82-8	Isopropylbenzene	50	43.6	87	42.5	85	3	74-121/25
99-87-6	p-Isopropyltoluene	50	47.3	95	46.2	92	2	84-128/25
1634-04-4	Methyl Tert Butyl Ether	50	51.1	102	49.5	99	3	67-145/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	51.9	104	48.9	98	6	61-155/25
74-95-3	Methylene bromide	50	50.7	101	49.4	99	3	75-124/25
75-09-2	Methylene chloride	50	48.3	97	46.7	93	3	62-137/25
91-20-3	Naphthalene	50	57.5	115	54.8	110	5	24-164/25
103-65-1	n-Propylbenzene	50	43.2	86	41.9	84	3	76-120/25
100-42-5	Styrene	50	44.0	88	42.9	86	3	74-132/25
630-20-6	1,1,1,2-Tetrachloroethane	50	48.9	98	48.6	97	1	71-136/25
79-34-5	1,1,2,2-Tetrachloroethane	50	51.1	102	50.7	101	1	65-145/25
127-18-4	Tetrachloroethene	50	44.8	90	44.5	89	1	73-122/25
108-88-3	Toluene	50	48.4	97	47.3	95	2	80-122/25
87-61-6	1,2,3-Trichlorobenzene	50	57.3	115	53.8	108	6	33-170/25
120-82-1	1,2,4-Trichlorobenzene	50	57.3	115	53.8	108	6	43-159/25
71-55-6	1,1,1-Trichloroethane	50	52.1	104	48.8	98	7	68-137/25
79-00-5	1,1,2-Trichloroethane	50	50.2	100	48.6	97	3	76-134/25
79-01-6	Trichloroethene	50	48.1	96	46.9	94	3	80-125/25
75-69-4	Trichlorofluoromethane	50	42.7	85	41.3	83	3	56-166/25
96-18-4	1,2,3-Trichloropropane	50	49.7	99	48.7	97	2	65-147/25
95-63-6	1,2,4-Trimethylbenzene	50	48.0	96	46.4	93	3	79-124/25
108-67-8	1,3,5-Trimethylbenzene	50	49.1	98	47.6	95	3	80-130/25
108-05-4	Vinyl Acetate	50	56.9	114	56.9	114	0	72-200/25
75-01-4	Vinyl chloride	50	45.3	91	43.2	86	5	39-176/25
	m,p-Xylene	100	96.2	96	94.2	94	2	75-121/25
95-47-6	o-Xylene	50	46.3	93	45.6	91	2	71-123/25
1330-20-7	Xylene (total)	150	142	95	140	93	1	74-122/25

\* = Outside of Control Limits.

## Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2514-BS	H75517.D	1	10/09/15	KP	n/a	n/a	MSH2514
MSH2514-BSD	H75518.D	1	10/09/15	KP	n/a	n/a	MSH2514

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-9, MC41909-10, MC41909-15, MC41909-16, MC41909-17, MC41909-21

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	105%	103%	79-127%
2037-26-5	Toluene-D8	103%	103%	80-116%
460-00-4	4-Bromofluorobenzene	94%	96%	77-124%

(a) Outside control limits. Individual spike recoveries within acceptance limits.

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-BS	G146432.D	1	10/09/15	CB	n/a	n/a	MSG5483
MSG5483-BSD	G146433.D	1	10/09/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	69.0	138	65.6	131	5	10-200/25
71-43-2	Benzene	50	46.2	92	44.0	88	5	74-124/25
108-86-1	Bromobenzene	50	50.1	100	47.7	95	5	80-117/25
74-97-5	Bromochloromethane	50	51.2	102	49.3	99	4	73-130/25
75-27-4	Bromodichloromethane	50	53.7	107	51.1	102	5	76-136/25
75-25-2	Bromoform	50	53.7	107	51.2	102	5	63-139/25
74-83-9	Bromomethane	50	50.9	102	46.7	93	9	49-161/25
78-93-3	2-Butanone (MEK)	50	71.4	143	66.4	133	7	44-191/25
104-51-8	n-Butylbenzene	50	53.1	106	49.6	99	7	84-134/25
135-98-8	sec-Butylbenzene	50	50.5	101	47.5	95	6	76-125/25
98-06-6	tert-Butylbenzene	50	52.6	105	49.5	99	6	74-123/25
75-15-0	Carbon disulfide	50	33.4	67	32.0	64	4	45-138/25
56-23-5	Carbon tetrachloride	50	60.2	120	57.7	115	4	64-149/25
108-90-7	Chlorobenzene	50	47.7	95	45.4	91	5	73-114/25
75-00-3	Chloroethane	50	53.3	107	47.8	96	11	43-165/25
67-66-3	Chloroform	50	53.0	106	50.9	102	4	72-132/25
74-87-3	Chloromethane	50	45.8	92	42.2	84	8	30-173/25
95-49-8	o-Chlorotoluene	50	49.9	100	48.5	97	3	75-116/25
106-43-4	p-Chlorotoluene	50	50.6	101	46.6	93	8	78-116/25
96-12-8	1,2-Dibromo-3-chloropropane	50	49.2	98	46.8	94	5	50-157/25
124-48-1	Dibromochloromethane	50	51.1	102	49.5	99	3	75-133/25
106-93-4	1,2-Dibromoethane	50	51.6	103	49.8	100	4	72-133/25
95-50-1	1,2-Dichlorobenzene	50	49.6	99	47.3	95	5	73-122/25
541-73-1	1,3-Dichlorobenzene	50	48.9	98	45.9	92	6	76-117/25
106-46-7	1,4-Dichlorobenzene	50	47.6	95	45.0	90	6	74-120/25
75-71-8	Dichlorodifluoromethane	50	20.5	41	19.5	39	5	30-180/25
75-34-3	1,1-Dichloroethane	50	48.9	98	46.7	93	5	62-130/25
107-06-2	1,2-Dichloroethane	50	62.6	125	60.0	120	4	65-140/25
75-35-4	1,1-Dichloroethene	50	45.1	90	42.7	85	5	57-132/25
156-59-2	cis-1,2-Dichloroethene	50	48.7	97	46.2	92	5	72-131/25
156-60-5	trans-1,2-Dichloroethene	50	46.2	92	44.7	89	3	69-127/25
78-87-5	1,2-Dichloropropane	50	50.3	101	47.8	96	5	74-130/25
142-28-9	1,3-Dichloropropane	50	54.1	108	51.1	102	6	80-129/25
594-20-7	2,2-Dichloropropane	50	50.7	101	47.6	95	6	54-162/25
563-58-6	1,1-Dichloropropene	50	53.3	107	50.9	102	5	75-116/25
10061-01-5	cis-1,3-Dichloropropene	50	52.4	105	49.5	99	6	86-141/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-BS	G146432.D	1	10/09/15	CB	n/a	n/a	MSG5483
MSG5483-BSD	G146433.D	1	10/09/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	51.2	102	49.7	99	3	80-134/25
100-41-4	Ethylbenzene	50	48.8	98	46.8	94	4	76-125/25
87-68-3	Hexachlorobutadiene	50	54.1	108	51.0	102	6	64-154/25
591-78-6	2-Hexanone	50	80.0	160	76.1	152	5	35-200/25
74-88-4	Iodomethane	50	43.9	88	42.3	85	4	50-154/25
98-82-8	Isopropylbenzene	50	49.9	100	46.6	93	7	74-121/25
99-87-6	p-Isopropyltoluene	50	52.0	104	48.6	97	7	84-128/25
1634-04-4	Methyl Tert Butyl Ether	50	54.7	109	52.6	105	4	67-145/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	61.2	122	58.2	116	5	61-155/25
74-95-3	Methylene bromide	50	57.1	114	53.9	108	6	75-124/25
75-09-2	Methylene chloride	50	46.8	94	45.5	91	3	62-137/25
91-20-3	Naphthalene	50	44.3	89	41.1	82	7	24-164/25
103-65-1	n-Propylbenzene	50	48.7	97	45.8	92	6	76-120/25
100-42-5	Styrene	50	50.4	101	48.7	97	3	74-132/25
630-20-6	1,1,1,2-Tetrachloroethane	50	60.9	122	58.9	118	3	71-136/25
79-34-5	1,1,2,2-Tetrachloroethane	50	49.1	98	46.8	94	5	65-145/25
127-18-4	Tetrachloroethene	50	51.7	103	49.3	99	5	73-122/25
108-88-3	Toluene	50	49.6	99	47.1	94	5	80-122/25
87-61-6	1,2,3-Trichlorobenzene	50	52.0	104	48.5	97	7	33-170/25
120-82-1	1,2,4-Trichlorobenzene	50	51.1	102	47.7	95	7	43-159/25
71-55-6	1,1,1-Trichloroethane	50	56.1	112	53.6	107	5	68-137/25
79-00-5	1,1,2-Trichloroethane	50	53.2	106	51.3	103	4	76-134/25
79-01-6	Trichloroethene	50	54.1	108	51.4	103	5	80-125/25
75-69-4	Trichlorofluoromethane	50	50.6	101	46.3	93	9	56-166/25
96-18-4	1,2,3-Trichloropropane	50	51.7	103	49.9	100	4	65-147/25
95-63-6	1,2,4-Trimethylbenzene	50	49.8	100	46.8	94	6	79-124/25
108-67-8	1,3,5-Trimethylbenzene	50	52.6	105	49.4	99	6	80-130/25
108-05-4	Vinyl Acetate	50	46.3	93	45.1	90	3	72-200/25
75-01-4	Vinyl chloride	50	44.7	89	41.2	82	8	39-176/25
	m,p-Xylene	100	103	103	100	100	3	75-121/25
95-47-6	o-Xylene	50	47.8	96	45.4	91	5	71-123/25
1330-20-7	Xylene (total)	150	151	101	145	97	4	74-122/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5483-BS	G146432.D	1	10/09/15	CB	n/a	n/a	MSG5483
MSG5483-BSD	G146433.D	1	10/09/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	106%	106%	79-127%
2037-26-5	Toluene-D8	101%	101%	80-116%
460-00-4	4-Bromofluorobenzene	93%	91%	77-124%

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4183-BS	L95256.D	1	10/12/15	MC	n/a	n/a	MSL4183
MSL4183-BSD	L95257.D	1	10/12/15	MC	n/a	n/a	MSL4183

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-14, MC41909-20, MC41909-22, MC41909-23, MC41909-24, MC41909-25, MC41909-26, MC41909-27

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	51.0	102	43.9	88	15	74-124/25
100-41-4	Ethylbenzene	50	51.9	104	45.5	91	13	76-125/25
1634-04-4	Methyl Tert Butyl Ether	50	54.8	110	46.5	93	16	67-145/25
91-20-3	Naphthalene	50	59.5	119	55.4	111	7	24-164/25
108-88-3	Toluene	50	53.8	108	46.7	93	14	80-122/25
95-63-6	1,2,4-Trimethylbenzene	50	52.6	105	46.3	93	13	79-124/25
108-67-8	1,3,5-Trimethylbenzene	50	54.3	109	48.1	96	12	80-130/25
1330-20-7	Xylene (total)	150	153	102	135	90	13	74-122/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	109%	108%	79-127%
2037-26-5	Toluene-D8	102%	101%	80-116%
460-00-4	4-Bromofluorobenzene	95%	96%	77-124%

\* = Outside of Control Limits.



# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4184-BS	L95287.D	1	10/13/15	KP	n/a	n/a	MSL4184
MSL4184-BSD	L95288.D	1	10/13/15	KP	n/a	n/a	MSL4184

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-1, MC41909-2, MC41909-3, MC41909-4, MC41909-5, MC41909-6, MC41909-7, MC41909-11, MC41909-12, MC41909-13, MC41909-18, MC41909-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	73.9	148	73.9	148	0	10-200/25
71-43-2	Benzene	50	44.0	88	44.0	88	0	74-124/25
108-86-1	Bromobenzene	50	44.5	89	44.6	89	0	80-117/25
74-97-5	Bromochloromethane	50	48.8	98	48.6	97	0	73-130/25
75-27-4	Bromodichloromethane	50	53.0	106	52.2	104	2	76-136/25
75-25-2	Bromoform	50	41.7	83	41.3	83	1	63-139/25
74-83-9	Bromomethane	50	54.8	110	52.0	104	5	49-161/25
78-93-3	2-Butanone (MEK)	50	67.2	134	69.0	138	3	44-191/25
104-51-8	n-Butylbenzene	50	52.4	105	52.8	106	1	84-134/25
135-98-8	sec-Butylbenzene	50	48.5	97	48.4	97	0	76-125/25
98-06-6	tert-Butylbenzene	50	50.1	100	49.7	99	1	74-123/25
75-15-0	Carbon disulfide	50	23.2	46	23.3	47	0	45-138/25
56-23-5	Carbon tetrachloride	50	50.6	101	50.2	100	1	64-149/25
108-90-7	Chlorobenzene	50	43.6	87	43.4	87	0	73-114/25
75-00-3	Chloroethane	50	69.0	138	65.9	132	5	43-165/25
67-66-3	Chloroform	50	54.4	109	53.4	107	2	72-132/25
74-87-3	Chloromethane	50	61.8	124	58.3	117	6	30-173/25
95-49-8	o-Chlorotoluene	50	47.2	94	46.9	94	1	75-116/25
106-43-4	p-Chlorotoluene	50	47.8	96	47.6	95	0	78-116/25
96-12-8	1,2-Dibromo-3-chloropropane	50	51.3	103	51.7	103	1	50-157/25
124-48-1	Dibromochloromethane	50	41.7	83	41.8	84	0	75-133/25
106-93-4	1,2-Dibromoethane	50	44.2	88	44.5	89	1	72-133/25
95-50-1	1,2-Dichlorobenzene	50	46.8	94	46.5	93	1	73-122/25
541-73-1	1,3-Dichlorobenzene	50	46.3	93	45.8	92	1	76-117/25
106-46-7	1,4-Dichlorobenzene	50	46.8	94	46.6	93	0	74-120/25
75-71-8	Dichlorodifluoromethane	50	42.9	86	42.8	86	0	30-180/25
75-34-3	1,1-Dichloroethane	50	47.8	96	47.6	95	0	62-130/25
107-06-2	1,2-Dichloroethane	50	54.8	110	53.8	108	2	65-140/25
75-35-4	1,1-Dichloroethene	50	32.5	65	32.2	64	1	57-132/25
156-59-2	cis-1,2-Dichloroethene	50	44.2	88	43.9	88	1	72-131/25
156-60-5	trans-1,2-Dichloroethene	50	37.8	76	38.4	77	2	69-127/25
78-87-5	1,2-Dichloropropane	50	50.3	101	49.4	99	2	74-130/25
142-28-9	1,3-Dichloropropane	50	49.6	99	49.6	99	0	80-129/25
594-20-7	2,2-Dichloropropane	50	55.6	111	54.4	109	2	54-162/25
563-58-6	1,1-Dichloropropene	50	44.6	89	44.8	90	0	75-116/25
10061-01-5	cis-1,3-Dichloropropene	50	46.1	92	46.0	92	0	86-141/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4184-BS	L95287.D	1	10/13/15	KP	n/a	n/a	MSL4184
MSL4184-BSD	L95288.D	1	10/13/15	KP	n/a	n/a	MSL4184

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-1, MC41909-2, MC41909-3, MC41909-4, MC41909-5, MC41909-6, MC41909-7, MC41909-11, MC41909-12, MC41909-13, MC41909-18, MC41909-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	42.8	86	42.8	86	0	80-134/25
100-41-4	Ethylbenzene	50	46.3	93	46.1	92	0	76-125/25
87-68-3	Hexachlorobutadiene	50	48.9	98	50.2	100	3	64-154/25
591-78-6	2-Hexanone	50	70.7	141	70.3	141	1	35-200/25
74-88-4	Iodomethane	50	38.3	77	37.5	75	2	50-154/25
98-82-8	Isopropylbenzene	50	46.3	93	46.6	93	1	74-121/25
99-87-6	p-Isopropyltoluene	50	48.3	97	47.9	96	1	84-128/25
1634-04-4	Methyl Tert Butyl Ether	50	47.3	95	47.9	96	1	67-145/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	54.9	110	55.1	110	0	61-155/25
74-95-3	Methylene bromide	50	49.4	99	49.4	99	0	75-124/25
75-09-2	Methylene chloride	50	41.8	84	41.5	83	1	62-137/25
91-20-3	Naphthalene	50	54.4	109	58.2	116	7	24-164/25
103-65-1	n-Propylbenzene	50	47.4	95	47.2	94	0	76-120/25
100-42-5	Styrene	50	44.0	88	43.6	87	1	74-132/25
630-20-6	1,1,1,2-Tetrachloroethane	50	48.6	97	48.3	97	1	71-136/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.6	97	49.8	100	2	65-145/25
127-18-4	Tetrachloroethene	50	40.7	81	40.8	82	0	73-122/25
108-88-3	Toluene	50	47.9	96	48.0	96	0	80-122/25
87-61-6	1,2,3-Trichlorobenzene	50	42.1	84	47.0	94	11	33-170/25
120-82-1	1,2,4-Trichlorobenzene	50	44.3	89	46.6	93	5	43-159/25
71-55-6	1,1,1-Trichloroethane	50	51.8	104	51.0	102	2	68-137/25
79-00-5	1,1,2-Trichloroethane	50	50.4	101	50.0	100	1	76-134/25
79-01-6	Trichloroethene	50	46.8	94	45.8	92	2	80-125/25
75-69-4	Trichlorofluoromethane	50	63.5	127	61.8	124	3	56-166/25
96-18-4	1,2,3-Trichloropropane	50	48.7	97	49.2	98	1	65-147/25
95-63-6	1,2,4-Trimethylbenzene	50	48.6	97	48.2	96	1	79-124/25
108-67-8	1,3,5-Trimethylbenzene	50	49.7	99	49.4	99	1	80-130/25
108-05-4	Vinyl Acetate	50	68.3	137	68.4	137	0	72-200/25
75-01-4	Vinyl chloride	50	80.2	160	78.3	157	2	39-176/25
	m,p-Xylene	100	90.5	91	90.0	90	1	75-121/25
95-47-6	o-Xylene	50	45.8	92	45.7	91	0	71-123/25
1330-20-7	Xylene (total)	150	136	91	136	91	0	74-122/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4184-BS	L95287.D	1	10/13/15	KP	n/a	n/a	MSL4184
MSL4184-BSD	L95288.D	1	10/13/15	KP	n/a	n/a	MSL4184

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-1, MC41909-2, MC41909-3, MC41909-4, MC41909-5, MC41909-6, MC41909-7, MC41909-11, MC41909-12, MC41909-13, MC41909-18, MC41909-19

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	114%	115%	79-127%
2037-26-5	Toluene-D8	103%	103%	80-116%
460-00-4	4-Bromofluorobenzene	95%	96%	77-124%

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1352-BS	U33023.D	1	10/14/15	AD	n/a	n/a	MSU1352
MSU1352-BSD	U33024.D	1	10/14/15	AD	n/a	n/a	MSU1352

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-31, MC41909-32

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	32.3	65	52.2	104	47* a	10-200/25
71-43-2	Benzene	50	47.7	95	45.2	90	5	74-124/25
108-86-1	Bromobenzene	50	45.3	91	49.0	98	8	80-117/25
74-97-5	Bromochloromethane	50	49.9	100	48.0	96	4	73-130/25
75-27-4	Bromodichloromethane	50	49.0	98	48.3	97	1	76-136/25
75-25-2	Bromoform	50	46.9	94	48.3	97	3	63-139/25
74-83-9	Bromomethane	50	71.3	143	65.3	131	9	49-161/25
78-93-3	2-Butanone (MEK)	50	38.2	76	55.6	111	37* a	44-191/25
104-51-8	n-Butylbenzene	50	53.4	107	51.0	102	5	84-134/25
135-98-8	sec-Butylbenzene	50	55.6	111	53.4	107	4	76-125/25
98-06-6	tert-Butylbenzene	50	51.8	104	47.5	95	9	74-123/25
75-15-0	Carbon disulfide	50	45.6	91	43.4	87	5	45-138/25
56-23-5	Carbon tetrachloride	50	54.4	109	50.6	101	7	64-149/25
108-90-7	Chlorobenzene	50	45.7	91	45.9	92	0	73-114/25
75-00-3	Chloroethane	50	57.0	114	55.9	112	2	43-165/25
67-66-3	Chloroform	50	49.7	99	46.2	92	7	72-132/25
74-87-3	Chloromethane	50	81.9	164	77.7	155	5	30-173/25
95-49-8	o-Chlorotoluene	50	48.5	97	47.3	95	3	75-116/25
106-43-4	p-Chlorotoluene	50	45.3	91	48.3	97	6	78-116/25
96-12-8	1,2-Dibromo-3-chloropropane	50	47.6	95	50.3	101	6	50-157/25
124-48-1	Dibromochloromethane	50	48.9	98	48.6	97	1	75-133/25
106-93-4	1,2-Dibromoethane	50	43.3	87	51.7	103	18	72-133/25
95-50-1	1,2-Dichlorobenzene	50	47.2	94	45.4	91	4	73-122/25
541-73-1	1,3-Dichlorobenzene	50	45.6	91	45.6	91	0	76-117/25
106-46-7	1,4-Dichlorobenzene	50	45.7	91	45.6	91	0	74-120/25
75-71-8	Dichlorodifluoromethane	50	44.8	90	43.1	86	4	30-180/25
75-34-3	1,1-Dichloroethane	50	50.2	100	48.1	96	4	62-130/25
107-06-2	1,2-Dichloroethane	50	49.8	100	48.0	96	4	65-140/25
75-35-4	1,1-Dichloroethene	50	49.0	98	51.6	103	5	57-132/25
156-59-2	cis-1,2-Dichloroethene	50	49.6	99	47.7	95	4	72-131/25
156-60-5	trans-1,2-Dichloroethene	50	48.1	96	47.0	94	2	69-127/25
78-87-5	1,2-Dichloropropane	50	47.3	95	49.8	100	5	74-130/25
142-28-9	1,3-Dichloropropane	50	44.5	89	52.7	105	17	80-129/25
594-20-7	2,2-Dichloropropane	50	54.0	108	50.1	100	7	54-162/25
563-58-6	1,1-Dichloropropene	50	52.4	105	47.7	95	9	75-116/25
10061-01-5	cis-1,3-Dichloropropene	50	42.8	86	52.2	104	20	86-141/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1352-BS	U33023.D	1	10/14/15	AD	n/a	n/a	MSU1352
MSU1352-BSD	U33024.D	1	10/14/15	AD	n/a	n/a	MSU1352

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-31, MC41909-32

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	50	29.2	58* b	44.6	89	42* b	80-134/25
100-41-4	Ethylbenzene	50	49.9	100	47.0	94	6	76-125/25
87-68-3	Hexachlorobutadiene	50	49.8	100	46.9	94	6	64-154/25
591-78-6	2-Hexanone	50	38.5	77	54.0	108	34* a	35-200/25
74-88-4	Iodomethane	50	49.7	99	50.1	100	1	50-154/25
98-82-8	Isopropylbenzene	50	54.5	109	50.8	102	7	74-121/25
99-87-6	p-Isopropyltoluene	50	55.9	112	54.4	109	3	84-128/25
1634-04-4	Methyl Tert Butyl Ether	50	50.0	100	52.3	105	4	67-145/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	42.5	85	58.1	116	31* a	61-155/25
74-95-3	Methylene bromide	50	46.6	93	49.6	99	6	75-124/25
75-09-2	Methylene chloride	50	47.8	96	47.9	96	0	62-137/25
91-20-3	Naphthalene	50	51.2	102	49.1	98	4	24-164/25
103-65-1	n-Propylbenzene	50	48.2	96	47.6	95	1	76-120/25
100-42-5	Styrene	50	50.7	101	52.3	105	3	74-132/25
630-20-6	1,1,1,2-Tetrachloroethane	50	57.4	115	46.3	93	21	71-136/25
79-34-5	1,1,2,2-Tetrachloroethane	50	47.8	96	49.1	98	3	65-145/25
127-18-4	Tetrachloroethene	50	50.8	102	45.4	91	11	73-122/25
108-88-3	Toluene	50	44.5	89	51.0	102	14	80-122/25
87-61-6	1,2,3-Trichlorobenzene	50	53.3	107	49.8	100	7	33-170/25
120-82-1	1,2,4-Trichlorobenzene	50	53.3	107	48.4	97	10	43-159/25
71-55-6	1,1,1-Trichloroethane	50	51.8	104	49.8	100	4	68-137/25
79-00-5	1,1,2-Trichloroethane	50	38.4	77	53.9	108	34* a	76-134/25
79-01-6	Trichloroethene	50	46.9	94	46.1	92	2	80-125/25
75-69-4	Trichlorofluoromethane	50	48.8	98	47.0	94	4	56-166/25
96-18-4	1,2,3-Trichloropropane	50	41.5	83	46.2	92	11	65-147/25
95-63-6	1,2,4-Trimethylbenzene	50	52.6	105	50.8	102	3	79-124/25
108-67-8	1,3,5-Trimethylbenzene	50	55.6	111	53.1	106	5	80-130/25
108-05-4	Vinyl Acetate	50	63.7	127	68.6	137	7	72-200/25
75-01-4	Vinyl chloride	50	55.8	112	54.0	108	3	39-176/25
	m,p-Xylene	100	99.8	100	94.9	95	5	75-121/25
95-47-6	o-Xylene	50	53.3	107	46.4	93	14	71-123/25
1330-20-7	Xylene (total)	150	153	102	141	94	8	74-122/25

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU1352-BS	U33023.D	1	10/14/15	AD	n/a	n/a	MSU1352
MSU1352-BSD	U33024.D	1	10/14/15	AD	n/a	n/a	MSU1352

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-31, MC41909-32

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	109%	97%	79-127%
2037-26-5	Toluene-D8	92%	106%	80-116%
460-00-4	4-Bromofluorobenzene	91%	103%	77-124%

- (a) Outside control limits. Individual spike recoveries within acceptance limits.
- (b) Outside control limits. Refer to Blank Spike Duplicate.

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSL4185-BS	L95312.D	1	10/14/15	MC	n/a	n/a	MSL4185
MSL4185-BSD	L95313.D	1	10/14/15	MC	n/a	n/a	MSL4185

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-2, MC41909-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
75-01-4	Vinyl chloride	50	48.8	98	38.0	76	25	39-176/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	102%	79-127%
2037-26-5	Toluene-D8	99%	99%	80-116%
460-00-4	4-Bromofluorobenzene	93%	93%	77-124%

\* = Outside of Control Limits.

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSG5495-BS	G146750.D	1	10/19/15	CB	n/a	n/a	MSG5495
MSG5495-BSD	G146751.D	1	10/19/15	CB	n/a	n/a	MSG5495

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-37

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	50.2	100	53.4	107	6	74-124/25
100-41-4	Ethylbenzene	50	50.6	101	52.4	105	3	76-125/25
1634-04-4	Methyl Tert Butyl Ether	50	54.9	110	55.8	112	2	67-145/25
91-20-3	Naphthalene	50	46.0	92	45.7	91	1	24-164/25
108-88-3	Toluene	50	50.8	102	53.4	107	5	80-122/25
95-63-6	1,2,4-Trimethylbenzene	50	50.7	101	53.4	107	5	79-124/25
108-67-8	1,3,5-Trimethylbenzene	50	54.0	108	56.9	114	5	80-130/25
1330-20-7	Xylene (total)	150	156	104	162	108	4	74-122/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	102%	79-127%
2037-26-5	Toluene-D8	100%	100%	80-116%
460-00-4	4-Bromofluorobenzene	96%	96%	77-124%

\* = Outside of Control Limits.



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41757-3MS	H75455.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3MSD	H75456.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3	H75453.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Compound	MC41757-3 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10 U	50	43.5	87	50	42.2	84	3	10-156/30
71-43-2	Benzene	0.50 U	50	55.6	111	50	53.3	107	4	63-135/30
108-86-1	Bromobenzene	5.0 U	50	47.8	96	50	45.9	92	4	75-116/30
74-97-5	Bromochloromethane	5.0 U	50	59.0	118	50	55.3	111	6	67-136/30
75-27-4	Bromodichloromethane	1.0 U	50	58.2	116	50	54.7	109	6	69-140/30
75-25-2	Bromoform	1.0 U	50	52.1	104	50	52.3	105	0	57-138/30
74-83-9	Bromomethane	2.0 U	50	49.2	98	50	55.7	111	12	25-169/30
78-93-3	2-Butanone (MEK)	10 U	50	57.5	115	50	52.7	105	9	23-159/30
104-51-8	n-Butylbenzene	5.0 U	50	54.7	109	50	51.7	103	6	75-135/30
135-98-8	sec-Butylbenzene	5.0 U	50	50.9	102	50	48.3	97	5	70-125/30
98-06-6	tert-Butylbenzene	5.0 U	50	50.9	102	50	47.8	96	6	64-128/30
75-15-0	Carbon disulfide	5.0 U	50	50.2	100	50	47.3	95	6	40-139/30
56-23-5	Carbon tetrachloride	1.0 U	50	63.4	127	50	59.4	119	7	60-149/30
108-90-7	Chlorobenzene	1.0 U	50	48.5	97	50	46.2	92	5	70-115/30
75-00-3	Chloroethane	2.0 U	50	50.5	101	50	58.3	117	14	37-175/30
67-66-3	Chloroform	1.0 U	50	59.9	120	50	55.9	112	7	64-141/30
74-87-3	Chloromethane	2.0 U	50	44.8	90	50	52.8	106	16	21-178/30
95-49-8	o-Chlorotoluene	5.0 U	50	49.1	98	50	47.2	94	4	60-130/30
106-43-4	p-Chlorotoluene	5.0 U	50	50.1	100	50	47.8	96	5	70-120/30
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U	50	60.1	120	50	54.3	109	10	51-156/30
124-48-1	Dibromochloromethane	1.0 U	50	47.2	94	50	45.0	90	5	70-131/30
106-93-4	1,2-Dibromoethane	1.0 U	50	51.4	103	50	49.2	98	4	72-131/30
95-50-1	1,2-Dichlorobenzene	1.0 U	50	52.9	106	50	49.3	99	7	68-122/30
541-73-1	1,3-Dichlorobenzene	1.0 U	50	51.0	102	50	47.7	95	7	71-117/30
106-46-7	1,4-Dichlorobenzene	1.0 U	50	51.0	102	50	47.3	95	8	69-120/30
75-71-8	Dichlorodifluoromethane	2.0 U	50	19.0	38	50	21.6	43	13	28-181/30
75-34-3	1,1-Dichloroethane	1.0 U	50	57.6	115	50	54.9	110	5	56-138/30
107-06-2	1,2-Dichloroethane	1.0 U	50	57.3	115	50	54.2	108	6	60-146/30
75-35-4	1,1-Dichloroethene	1.0 U	50	59.8	120	50	57.3	115	4	52-137/30
156-59-2	cis-1,2-Dichloroethene	0.44	50	59.9	119	50	56.9	113	5	64-139/30
156-60-5	trans-1,2-Dichloroethene	1.0 U	50	57.6	115	50	55.3	111	4	63-132/30
78-87-5	1,2-Dichloropropane	2.0 U	50	56.5	113	50	53.1	106	6	67-137/30
142-28-9	1,3-Dichloropropane	5.0 U	50	53.1	106	50	49.6	99	7	78-130/30
594-20-7	2,2-Dichloropropane	5.0 U	50	57.6	115	50	53.2	106	8	36-166/30
563-58-6	1,1-Dichloropropene	5.0 U	50	53.9	108	50	53.0	106	2	68-123/30
10061-01-5	cis-1,3-Dichloropropene	0.50 U	50	58.1	116	50	54.0	108	7	77-142/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41757-3MS	H75455.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3MSD	H75456.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3	H75453.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Compound	MC41757-3 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	0.50 U	50	51.0	102	50	46.9	94	8	73-136/30
100-41-4	Ethylbenzene	1.0 U	50	52.7	105	50	49.9	100	5	60-136/30
87-68-3	Hexachlorobutadiene	5.0 U	50	53.4	107	50	53.5	107	0	63-143/30
591-78-6	2-Hexanone	10 U	50	47.5	95	50	48.0	96	1	29-151/30
74-88-4	Iodomethane	5.0 U	50	54.9	110	50	53.4	107	3	37-158/30
98-82-8	Isopropylbenzene	5.0 U	50	48.3	97	50	45.4	91	6	67-123/30
99-87-6	p-Isopropyltoluene	5.0 U	50	52.0	104	50	49.3	99	5	78-126/30
1634-04-4	Methyl Tert Butyl Ether	1.0 U	50	59.2	118	50	56.8	114	4	60-156/30
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	50	55.5	111	50	52.0	104	7	47-167/30
74-95-3	Methylene bromide	5.0 U	50	58.6	117	50	55.3	111	6	70-130/30
75-09-2	Methylene chloride	2.0 U	50	59.6	119	50	56.4	113	6	55-144/30
91-20-3	Naphthalene	5.0 U	50	53.3	107	50	49.8	100	7	23-167/30
103-65-1	n-Propylbenzene	5.0 U	50	48.3	97	50	45.8	92	5	66-124/30
100-42-5	Styrene	5.0 U	50	45.7	91	50	45.7	91	0	61-137/30
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U	50	54.7	109	50	52.7	105	4	71-132/30
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U	50	55.2	110	50	53.5	107	3	62-149/30
127-18-4	Tetrachloroethene	1.0 U	50	49.7	99	50	47.9	96	4	65-124/30
108-88-3	Toluene	1.0 U	50	55.5	111	50	50.8	102	9	69-134/30
87-61-6	1,2,3-Trichlorobenzene	5.0 U	50	55.7	111	50	50.3	101	10	41-157/30
120-82-1	1,2,4-Trichlorobenzene	5.0 U	50	55.7	111	50	50.3	101	10	46-147/30
71-55-6	1,1,1-Trichloroethane	1.0 U	50	62.8	126	50	58.4	117	7	61-144/30
79-00-5	1,1,2-Trichloroethane	1.0 U	50	57.0	114	50	51.6	103	10	69-142/30
79-01-6	Trichloroethene	1.0 U	50	56.2	112	50	54.6	109	3	69-133/30
75-69-4	Trichlorofluoromethane	1.0 U	50	44.8	90	50	51.0	102	13	60-163/30
96-18-4	1,2,3-Trichloropropane	5.0 U	50	52.5	105	50	51.1	102	3	57-150/30
95-63-6	1,2,4-Trimethylbenzene	5.0 U	50	52.2	104	50	49.4	99	6	67-130/30
108-67-8	1,3,5-Trimethylbenzene	5.0 U	50	52.8	106	50	50.6	101	4	66-137/30
108-05-4	Vinyl Acetate	5.0 U	50	61.8	124	50	58.8	118	5	48-200/30
75-01-4	Vinyl chloride	1.0 U	50	44.6	89	50	52.2	104	16	39-176/30
	m,p-Xylene	1.0 U	100	108	108	100	103	103	5	64-128/30
95-47-6	o-Xylene	1.0 U	50	51.0	102	50	50.0	100	2	64-126/30
1330-20-7	Xylene (total)	1.0 U	150	159	106	150	153	102	4	65-127/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909  
**Account:** TINJP Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41757-3MS	H75455.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3MSD	H75456.D	1	10/07/15	KP	n/a	n/a	MSH2511
MC41757-3	H75453.D	1	10/07/15	KP	n/a	n/a	MSH2511

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-8

CAS No.	Surrogate Recoveries	MS	MSD	MC41757-3	Limits
1868-53-7	Dibromofluoromethane	109%	108%	113%	79-127%
2037-26-5	Toluene-D8	102%	99%	98%	80-116%
460-00-4	4-Bromofluorobenzene	96%	96%	94%	77-124%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41890-3MS	L95264.D	1	10/13/15	MC	n/a	n/a	MSL4183
MC41890-3MSD	L95265.D	1	10/13/15	MC	n/a	n/a	MSL4183
MC41890-3	L95261.D	1	10/12/15	MC	n/a	n/a	MSL4183

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-14, MC41909-20, MC41909-22, MC41909-23, MC41909-24, MC41909-25, MC41909-26, MC41909-27

CAS No.	Compound	MC41890-3 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	46.2	92	50	50.3	101	8	63-135/30
100-41-4	Ethylbenzene	ND	50	46.5	93	50	50.4	101	8	60-136/30
1634-04-4	Methyl Tert Butyl Ether	ND	50	48.6	97	50	52.4	105	8	60-156/30
91-20-3	Naphthalene	ND	50	49.1	98	50	53.7	107	9	23-167/30
108-88-3	Toluene	ND	50	48.3	97	50	52.9	106	9	69-134/30
95-63-6	1,2,4-Trimethylbenzene	ND	50	47.7	95	50	52.0	104	9	67-130/30
108-67-8	1,3,5-Trimethylbenzene	ND	50	49.8	100	50	53.3	107	7	66-137/30
1330-20-7	Xylene (total)	ND	150	136	91	150	147	98	8	65-127/30

CAS No.	Surrogate Recoveries	MS	MSD	MC41890-3	Limits
1868-53-7	Dibromofluoromethane	116%	115%	112%	79-127%
2037-26-5	Toluene-D8	102%	102%	100%	80-116%
460-00-4	4-Bromofluorobenzene	97%	97%	107%	77-124%

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41827-8MS	G146536.D	5	10/13/15	CB	n/a	n/a	MSG5483
MC41827-8MSD	G146537.D	5	10/13/15	CB	n/a	n/a	MSG5483
MC41827-8	G146439.D	1	10/10/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Compound	MC41827-8 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	250	251	100	250	190	76	28	10-156/30
71-43-2	Benzene	3.0	250	263	104	250	194	76	30	63-135/30
108-86-1	Bromobenzene	ND	250	314	126* a	250	228	91	32* b	75-116/30
74-97-5	Bromochloromethane	ND	250	297	119	250	218	87	31* b	67-136/30
75-27-4	Bromodichloromethane	ND	250	329	132	250	232	93	35* b	69-140/30
75-25-2	Bromoform	ND	250	271	108	250	196	78	32* b	57-138/30
74-83-9	Bromomethane	ND	250	352	141	250	233	93	41* b	25-169/30
78-93-3	2-Butanone (MEK)	ND	250	304	122	250	215	86	34* b	23-159/30
104-51-8	n-Butylbenzene	14.9	250	335	128	250	250	94	29	75-135/30
135-98-8	sec-Butylbenzene	14.1	250	318	122	250	234	88	30	70-125/30
98-06-6	tert-Butylbenzene	4.9	250	331	130* a	250	246	96	29	64-128/30
75-15-0	Carbon disulfide	ND	250	116	46	250	86.2	34* a	29	40-139/30
56-23-5	Carbon tetrachloride	ND	250	363	145	250	254	102	35* b	60-149/30
108-90-7	Chlorobenzene	ND	250	299	120* a	250	219	88	31* b	70-115/30
75-00-3	Chloroethane	ND	250	359	144	250	240	96	40* b	37-175/30
67-66-3	Chloroform	ND	250	323	129	250	234	94	32* b	64-141/30
74-87-3	Chloromethane	ND	250	350	140	250	236	94	39* b	21-178/30
95-49-8	o-Chlorotoluene	ND	250	313	125	250	232	93	30	60-130/30
106-43-4	p-Chlorotoluene	ND	250	314	126* a	250	232	93	30	70-120/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	345	138	250	244	98	34* b	51-156/30
124-48-1	Dibromochloromethane	ND	250	290	116	250	206	82	34* b	70-131/30
106-93-4	1,2-Dibromoethane	ND	250	327	131	250	237	95	32* b	72-131/30
95-50-1	1,2-Dichlorobenzene	ND	250	312	125* a	250	230	92	30	68-122/30
541-73-1	1,3-Dichlorobenzene	ND	250	303	121* a	250	225	90	30	71-117/30
106-46-7	1,4-Dichlorobenzene	ND	250	295	118	250	220	88	29	69-120/30
75-71-8	Dichlorodifluoromethane	ND	250	199	80	250	126	50	45* b	28-181/30
75-34-3	1,1-Dichloroethane	ND	250	274	110	250	200	80	31* b	56-138/30
107-06-2	1,2-Dichloroethane	ND	250	395	158* a	250	282	113	33* b	60-146/30
75-35-4	1,1-Dichloroethene	ND	250	210	84	250	152	61	32* b	52-137/30
156-59-2	cis-1,2-Dichloroethene	ND	250	277	111	250	202	81	31* b	64-139/30
156-60-5	trans-1,2-Dichloroethene	ND	250	245	98	250	179	72	31* b	63-132/30
78-87-5	1,2-Dichloropropane	ND	250	310	124	250	226	90	31* b	67-137/30
142-28-9	1,3-Dichloropropane	ND	250	342	137* a	250	250	100	31* b	78-130/30
594-20-7	2,2-Dichloropropane	ND	250	300	120	250	211	84	35* b	36-166/30
563-58-6	1,1-Dichloropropene	ND	250	302	121	250	217	87	33* b	68-123/30
10061-01-5	cis-1,3-Dichloropropene	ND	250	328	131	250	229	92	36* b	77-142/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41827-8MS	G146536.D	5	10/13/15	CB	n/a	n/a	MSG5483
MC41827-8MSD	G146537.D	5	10/13/15	CB	n/a	n/a	MSG5483
MC41827-8	G146439.D	1	10/10/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Compound	MC41827-8 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-02-6	trans-1,3-Dichloropropene	ND	250	339	136	250	234	94	37* b	73-136/30
100-41-4	Ethylbenzene	124	250	390	106	250	309	74	23	60-136/30
87-68-3	Hexachlorobutadiene	ND	250	342	137	250	251	100	31* b	63-143/30
591-78-6	2-Hexanone	ND	250	357	143	250	259	104	32* b	29-151/30
74-88-4	Iodomethane	ND	250	200	80	250	144	58	33* b	37-158/30
98-82-8	Isopropylbenzene	55.2	250	339	114	250	257	81	28	67-123/30
99-87-6	p-Isopropyltoluene	3.0	250	322	128* a	250	238	94	30	78-126/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	314	126	250	228	91	32* b	60-156/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	303	121	250	211	84	36* b	47-167/30
74-95-3	Methylene bromide	ND	250	361	144* a	250	261	104	32* b	70-130/30
75-09-2	Methylene chloride	ND	250	258	103	250	187	75	32* b	55-144/30
91-20-3	Naphthalene	20.7	250	320	120	250	237	87	30	23-167/30
103-65-1	n-Propylbenzene	92.3	250	354	105	250	273	72	26	66-124/30
100-42-5	Styrene	ND	250	306	122	250	219	88	33* b	61-137/30
630-20-6	1,1,1,2-Tetrachloroethane	ND	250	396	158* a	250	284	114	33* b	71-132/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	342	137	250	250	100	31* b	62-149/30
127-18-4	Tetrachloroethene	ND	250	309	124	250	225	90	31* b	65-124/30
108-88-3	Toluene	1.9	250	303	120	250	218	86	33* b	69-134/30
87-61-6	1,2,3-Trichlorobenzene	ND	250	343	137	250	255	102	29	41-157/30
120-82-1	1,2,4-Trichlorobenzene	ND	250	341	136	250	251	100	30	46-147/30
71-55-6	1,1,1-Trichloroethane	ND	250	328	131	250	234	94	33* b	61-144/30
79-00-5	1,1,2-Trichloroethane	ND	250	350	140	250	249	100	34* b	69-142/30
79-01-6	Trichloroethene	ND	250	309	124	250	219	88	34* b	69-133/30
75-69-4	Trichlorofluoromethane	ND	250	356	142	250	227	91	44* b	60-163/30
96-18-4	1,2,3-Trichloropropane	ND	250	339	136	250	246	98	32* b	57-150/30
95-63-6	1,2,4-Trimethylbenzene	28.9	250	326	119	250	243	86	29	67-130/30
108-67-8	1,3,5-Trimethylbenzene	0.92	250	324	129	250	240	96	30	66-137/30
108-05-4	Vinyl Acetate	ND	250	401	160	250	289	116	32* b	48-200/30
75-01-4	Vinyl chloride	ND	250	328	131	250	218	87	40* b	39-176/30
	m,p-Xylene	8.0	500	651	129* a	500	478	94	31* b	64-128/30
95-47-6	o-Xylene	3.4	250	299	118	250	219	86	31* b	64-126/30
1330-20-7	Xylene (total)	11.4	750	950	125	750	696	91	31* b	65-127/30

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41827-8MS	G146536.D	5	10/13/15	CB	n/a	n/a	MSG5483
MC41827-8MSD	G146537.D	5	10/13/15	CB	n/a	n/a	MSG5483
MC41827-8	G146439.D	1	10/10/15	CB	n/a	n/a	MSG5483

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-33, MC41909-34, MC41909-35, MC41909-36

CAS No.	Surrogate Recoveries	MS	MSD	MC41827-8	Limits
1868-53-7	Dibromofluoromethane	110%	106%	95%	79-127%
2037-26-5	Toluene-D8	102%	100%	99%	80-116%
460-00-4	4-Bromofluorobenzene	93%	92%	95%	77-124%

- (a) Outside control limits due to possible matrix interference. Refer to Blank Spike.
- (b) High RPD due to possible matrix interference and/or sample non-homogeneity.

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC41933-1MS	G146563.D	1	10/14/15	CB	n/a	n/a	MSG5487
MC41933-1MSD	G146564.D	1	10/14/15	CB	n/a	n/a	MSG5487
MC41933-1	G146543.D	1	10/14/15	CB	n/a	n/a	MSG5487

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-28, MC41909-29, MC41909-30

CAS No.	Compound	MC41933-1 ug/l	Spike Q ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	50	37.7	75	50	36.4	73	4	63-135/30
100-41-4	Ethylbenzene	ND	50	44.9	90	50	43.1	86	4	60-136/30
1634-04-4	Methyl Tert Butyl Ether	ND	50	41.3	83	50	40.6	81	2	60-156/30
91-20-3	Naphthalene	ND	50	38.6	77	50	38.9	78	1	23-167/30
108-88-3	Toluene	ND	50	43.0	86	50	41.6	83	3	69-134/30
95-63-6	1,2,4-Trimethylbenzene	ND	50	44.9	90	50	43.0	86	4	67-130/30
108-67-8	1,3,5-Trimethylbenzene	ND	50	47.7	95	50	45.6	91	5	66-137/30
1330-20-7	Xylene (total)	ND	150	139	93	150	133	89	4	65-127/30

CAS No.	Surrogate Recoveries	MS	MSD	MC41933-1	Limits
1868-53-7	Dibromofluoromethane	104%	105%	107%	79-127%
2037-26-5	Toluene-D8	101%	101%	98%	80-116%
460-00-4	4-Bromofluorobenzene	93%	92%	103%	77-124%

\* = Outside of Control Limits.



# Matrix Spike/Matrix Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC42044-20MS <sup>a</sup>	L95321.D	2	10/14/15	MC	n/a	n/a	MSL4185
MC42044-20MSD <sup>a</sup>	L95322.D	2	10/14/15	MC	n/a	n/a	MSL4185
MC42044-20 <sup>a</sup>	L95320.D	2	10/14/15	MC	n/a	n/a	MSL4185

The QC reported here applies to the following samples:

Method: SW846 8260C

MC41909-2, MC41909-4

CAS No.	Compound	MC42044-20 Spike		MS	MS	Spike	MSD	MSD	RPD	Limits
		ug/l	Q ug/l	ug/l	%	ug/l	ug/l	%		Rec/RPD
75-01-4	Vinyl chloride	ND	100	73.0	73	100	86.3	86	17	39-176/30

CAS No.	Surrogate Recoveries	MS	MSD	MC42044-20 Limits	
1868-53-7	Dibromofluoromethane	97%	98%	96%	79-127%
2037-26-5	Toluene-D8	98%	99%	98%	80-116%
460-00-4	4-Bromofluorobenzene	92%	93%	98%	77-124%

(a) The pH of the sample aliquot for VOA analysis was > 2 at time of analysis.

\* = Outside of Control Limits.

# Volatile Surrogate Recovery Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

**Method:** SW846 8260C

**Matrix:** AQ

**Samples and QC shown here apply to the above method**

Lab Sample ID	Lab File ID	S1	S2	S3
MC41909-1	L95298.D	121	103	107
MC41909-2	L95323.D	99	98	98
MC41909-2	L95299.D	119	103	106
MC41909-3	L95300.D	125	102	106
MC41909-4	L95324.D	99	98	95
MC41909-4	L95301.D	121	104	105
MC41909-5	L95302.D	125	103	107
MC41909-6	L95303.D	124	103	105
MC41909-7	L95304.D	123	104	107
MC41909-8	H75531.D	101	98	97
MC41909-9	H75532.D	102	105	97
MC41909-10	H75533.D	105	100	97
MC41909-11	L95293.D	118	103	110
MC41909-12	L95294.D	119	101	108
MC41909-13	L95295.D	121	101	107
MC41909-14	L95274.D	118	101	108
MC41909-15	H75534.D	106	107	97
MC41909-16	H75535.D	106	100	97
MC41909-17	H75536.D	105	106	94
MC41909-18	L95296.D	121	102	107
MC41909-19	L95297.D	123	102	109
MC41909-20	L95267.D	113	100	104
MC41909-21	H75537.D	108	108	97
MC41909-22	L95269.D	114	101	109
MC41909-23	L95268.D	113	101	108
MC41909-24	L95270.D	116	101	108
MC41909-25	L95271.D	114	102	107
MC41909-26	L95272.D	115	102	106
MC41909-27	L95273.D	115	102	104
MC41909-28	G146548.D	114	99	100
MC41909-29	G146555.D	96	97	98
MC41909-30	G146560.D	99	97	97
MC41909-31	U33033.D	105	101	102
MC41909-32	U33030.D	115	83	90
MC41909-33	G146447.D	113	100	100
MC41909-34	G146442.D	99	98	101
MC41909-35	G146443.D	101	99	101
MC41909-36	G146444.D	103	100	103
MC41909-37	G146763.D	103	99	97
MC41757-3MS	H75455.D	109	102	96

# Volatile Surrogate Recovery Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

**Method:** SW846 8260C

**Matrix:** AQ

**Samples and QC shown here apply to the above method**

Lab Sample ID	Lab File ID	S1	S2	S3
MC41757-3MSD	H75456.D	108	99	96
MC41827-8MS	G146536.D	110	102	93
MC41827-8MSD	G146537.D	106	100	92
MC41890-3MS	L95264.D	116	102	97
MC41890-3MSD	L95265.D	115	102	97
MC41933-1MS	G146563.D	104	101	93
MC41933-1MSD	G146564.D	105	101	92
MC42044-20MS	L95321.D	97	98	92
MC42044-20MSD	L95322.D	98	99	93
MSG5483-BS	G146432.D	106	101	93
MSG5483-BSD	G146433.D	106	101	91
MSG5483-MB	G146435.D	108	99	102
MSG5487-BS	G146540.D	107	102	94
MSG5487-MB	G146542.D	108	98	106
MSG5495-BS	G146750.D	104	100	96
MSG5495-BSD	G146751.D	102	100	96
MSG5495-MB	G146753.D	103	98	100
MSH2511-BS1	H75517.D	105	103	94
MSH2511-MB1	H75520.D	104	104	94
MSH2514-BS	H75517.D	105	103	94
MSH2514-BSD	H75518.D	103	103	96
MSH2514-MB	H75520.D	104	104	94
MSL4183-BS	L95256.D	109	102	95
MSL4183-BSD	L95257.D	108	101	96
MSL4183-MB	L95259.D	107	99	104
MSL4184-BS	L95287.D	114	103	95
MSL4184-BSD	L95288.D	115	103	96
MSL4184-MB	L95290.D	113	101	106
MSL4185-BS	L95312.D	101	99	93
MSL4185-BSD	L95313.D	102	99	93
MSL4185-MB	L95315.D	102	97	101
MSU1352-BS	U33023.D	109	92	91
MSU1352-BSD	U33024.D	97	106	103
MSU1352-MB	U33026.D	103	96	102
MSG5483-MB1	G146516.D	98	98	99
MSH2511-MB	H75437.D	103	99	96

**Surrogate Compounds**

**Recovery Limits**

# Volatile Surrogate Recovery Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

**Method:** SW846 8260C

**Matrix:** AQ

**Samples and QC shown here apply to the above method**

<b>Surrogate Compounds</b>	<b>Recovery Limits</b>
S1 = Dibromofluoromethane	79-127%
S2 = Toluene-D8	80-116%
S3 = 4-Bromofluorobenzene	77-124%

6.5.1

6

## GC/MS Semi-volatiles

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

# Method Blank Summary

**Job Number:** MC41909  
**Account:** TINJP Tyco International  
**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44860-MB	I98236.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670

**The QC reported here applies to the following samples:** **Method:** SW846 8270D BY SIM

MC41909-1, MC41909-2, MC41909-3, MC41909-4, MC41909-5, MC41909-6, MC41909-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.0075	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.0084	ug/l	
120-12-7	Anthracene	ND	0.10	0.0098	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.015	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	0.019	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.013	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.010	ug/l	
218-01-9	Chrysene	ND	0.10	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.015	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.0074	ug/l	
86-73-7	Fluorene	ND	0.10	0.015	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.020	ug/l	
91-57-6	2-Methylnaphthalene	0.056	2.0	0.011	ug/l	J
91-20-3	Naphthalene	0.041	2.0	0.0081	ug/l	J
85-01-8	Phenanthrene	ND	0.050	0.011	ug/l	
129-00-0	Pyrene	ND	0.10	0.0085	ug/l	

CAS No.	Surrogate Recoveries	Limits	
4165-60-0	Nitrobenzene-d5	92%	26-121%
321-60-8	2-Fluorobiphenyl	62%	28-107%
1718-51-0	Terphenyl-d14	83%	29-129%

# Blank Spike/Blank Spike Duplicate Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP44860-BS	I98237.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670
OP44860-BSD	I98238.D	1	10/13/15	MR	10/04/15	OP44860	MSI3670

The QC reported here applies to the following samples:

Method: SW846 8270D BY SIM

MC41909-1, MC41909-2, MC41909-3, MC41909-4, MC41909-5, MC41909-6, MC41909-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	31.7	63	31.8	64	0	45-116/30
208-96-8	Acenaphthylene	50	36.0	72	35.9	72	0	34-110/30
120-12-7	Anthracene	50	35.9	72	35.9	72	0	50-117/30
56-55-3	Benzo(a)anthracene	50	40.4	81	41.0	82	1	55-139/30
50-32-8	Benzo(a)pyrene	50	44.2	88	44.5	89	1	48-131/30
205-99-2	Benzo(b)fluoranthene	50	42.0	84	42.9	86	2	49-141/30
191-24-2	Benzo(g,h,i)perylene	50	41.3	83	42.2	84	2	60-130/30
207-08-9	Benzo(k)fluoranthene	50	41.2	82	41.1	82	0	49-133/30
218-01-9	Chrysene	50	32.5	65	32.7	65	1	52-128/30
53-70-3	Dibenzo(a,h)anthracene	50	41.9	84	42.7	85	2	60-136/30
206-44-0	Fluoranthene	50	39.4	79	39.9	80	1	46-132/30
86-73-7	Fluorene	50	38.9	78	38.4	77	1	53-120/30
193-39-5	Indeno(1,2,3-cd)pyrene	50	41.4	83	42.1	84	2	57-134/30
91-57-6	2-Methylnaphthalene	50	32.6	65	32.9	66	1	36-111/30
91-20-3	Naphthalene	50	28.0	56	28.1	56	0	32-116/30
85-01-8	Phenanthrene	50	32.0	64	32.3	65	1	50-120/30
129-00-0	Pyrene	50	37.4	75	38.0	76	2	48-127/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	94%	96%	26-121%
321-60-8	2-Fluorobiphenyl	68%	64%	28-107%
1718-51-0	Terphenyl-d14	91%	90%	29-129%

\* = Outside of Control Limits.

7.2.1  
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# Semivolatile Surrogate Recovery Summary

**Job Number:** MC41909

**Account:** TINJP Tyco International

**Project:** OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

<b>Method:</b> SW846 8270D BY SIM	<b>Matrix:</b> AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC41909-1	I98254.D	85	53	84
MC41909-2	I98255.D	85	52	84
MC41909-3	I98256.D	87	58	93
MC41909-4	I98257.D	87	59	90
MC41909-5	I98258.D	98	64	91
MC41909-6	I98259.D	94	57	82
MC41909-7	I98260.D	90	55	82
OP44860-BS	I98237.D	94	68	91
OP44860-BSD	I98238.D	96	64	90
OP44860-MB	I98236.D	92	62	83

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	26-121%
S2 = 2-Fluorobiphenyl	28-107%
S3 = Terphenyl-d14	29-129%

7.3.1  
7



## Metals Analysis

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### QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: MC41909  
Account: TINJP - Tyco International  
Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 10/05/15 10/05/15

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	15	28				
Antimony	6.0	.76	2				
Arsenic	4.0	1.3	1.7	-1.1	<4.0	-0.80	<4.0
Barium	50	.24	1	0.30	<50	0.30	<50
Beryllium	4.0	.18	.25				
Bismuth	50	.9	2.1				
Boron	100	.43	1.1				
Cadmium	4.0	.14	.43	0.10	<4.0	0.0	<4.0
Calcium	5000	5.3	15				
Chromium	10	.37	.48	-0.60	<10	-0.20	<10
Cobalt	50	.14	.28				
Copper	25	.48	2.4				
Gold	50	.95	1.5				
Iron	100	3.2	17				
Lead	5.0	.56	1.7	-0.60	<5.0	-0.40	<5.0
Lithium	500	2	2.5				
Magnesium	5000	22	54				
Manganese	15	.04	1.4				
Molybdenum	100	2	3.6				
Nickel	40	.19	.5				
Palladium	50	1.2	2.6				
Platinum	50	3.8	5.4				
Potassium	5000	40	49				
Selenium	10	1	2	-0.50	<10	0.0	<10
Silicon	100	13	30				
Silver	5.0	.6	1	1.5	<5.0	1.3	<5.0
Sodium	5000	10	77				
Sulfur	50	1.6	4.6				
Strontium	10	.15	.22				
Thallium	5.0	.47	1.7				
Tin	100	.26	.81				
Titanium	50	.38	.51				
Tungsten	100	3.1	22				

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: MC41909  
Account: TINJP - Tyco International  
Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 10/05/15 10/05/15

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
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Vanadium 10 .36 .51

Zinc 20 .096 1

Zirconium 50 .29 1.2

Associated samples MP25239: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

8.1.1  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 10/05/15

Metal	MC41804-6 Original MS		SpikeLot MPICP7	% Rec	QC Limits
Aluminum	anr				
Antimony					
Arsenic	12.5	519	500	101.3	75-125
Barium	608	2580	2000	98.6	75-125
Beryllium					
Bismuth					
Boron					
Cadmium	2.7	514	500	102.3	75-125
Calcium					
Chromium	45.6	548	500	100.5	75-125
Cobalt					
Copper					
Gold					
Iron	anr				
Lead	27.6	1000	1000	97.2	75-125
Lithium					
Magnesium					
Manganese	anr				
Molybdenum					
Nickel					
Palladium					
Platinum					
Potassium					
Selenium	0.0	490	500	98.0	75-125
Silicon					
Silver	0.0	194	200	97.0	75-125
Sodium					
Sulfur					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					

8.12  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 10/05/15

Metal	MC41804-6 Original MS	Spike lot MPICP7	% Rec	QC Limits
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Vanadium

Zinc anr

Zirconium

Associated samples MP25239: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

8.12  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 10/05/15

Metal	MC41804-6 Original MSD	SpikeLot MPICP7	% Rec	MSD RPD	QC Limit	
Aluminum	anr					
Antimony						
Arsenic	12.5	520	500	101.5	0.2	20
Barium	608	2550	2000	97.1	1.2	20
Beryllium						
Bismuth						
Boron						
Cadmium	2.7	514	500	102.3	0.0	20
Calcium						
Chromium	45.6	549	500	100.7	0.2	20
Cobalt						
Copper						
Gold						
Iron	anr					
Lead	27.6	998	1000	97.0	0.2	20
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Palladium						
Platinum						
Potassium						
Selenium	0.0	492	500	98.4	0.4	20
Silicon						
Silver	0.0	192	200	96.0	1.0	20
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						

8.12  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 10/05/15

Metal	MC41804-6 Original MSD	SpikeLot MPICP7	% Rec	MSD RPD	QC Limit
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Vanadium

Zinc anr

Zirconium

Associated samples MP25239: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

8.12  
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 10/05/15 10/05/15

Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits	BSD Result	Spikelot MPICP7	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony									
Arsenic	509	500	101.8	80-120	519	500	103.8	1.9	20
Barium	1970	2000	98.5	80-120	2000	2000	100.0	1.5	20
Beryllium									
Bismuth									
Boron									
Cadmium	511	500	102.2	80-120	521	500	104.2	1.9	20
Calcium									
Chromium	504	500	100.8	80-120	514	500	102.8	2.0	20
Cobalt									
Copper									
Gold									
Iron	anr								
Lead	988	1000	98.8	80-120	1000	1000	100.0	1.2	20
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel									
Palladium									
Platinum									
Potassium									
Selenium	501	500	100.2	80-120	510	500	102.0	1.8	20
Silicon									
Silver	193	200	96.5	80-120	198	200	99.0	2.6	20
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									

8.1.3  
**8**



SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 10/05/15 10/05/15

Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits	BSD Result	Spikelot MPICP7	% Rec	BSD RPD	QC Limit
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Vanadium

Zinc anr

Zirconium

Associated samples MP25239: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

8.1.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 10/05/15

Metal	MC41804-6 Original SDL 1:5		%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	12.5	12.3	1.6	0-10
Barium	608	629	3.5	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	2.70	2.70	0.0	0-10
Calcium				
Chromium	45.6	48.6	6.6	0-10
Cobalt				
Copper				
Gold				
Iron	anr			
Lead	27.6	28.2	2.2	0-10
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Palladium				
Platinum				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				

8.1.4  
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC41909  
Account: TINJP - Tyco International  
Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
Matrix Type: AQUEOUS

Methods: SW846 6010C  
Units: ug/l

Prep Date: 10/05/15

Metal	MC41804-6	QC
	Original SDL 1:5	%DIF Limits

Vanadium

Zinc anr

Zirconium

Associated samples MP25239: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

8.1.4  
8

POST DIGESTATE SPIKE SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date:

10/05/15

Metal	Sample ml	Final ml	MC41804-6 Raw	PS Corr.**	ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Gold										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Palladium										
Platinum										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Sulfur										
Strontium										
Thallium										
Tin										
Titanium										
Tungsten										

8.1.5  
8

POST DIGESTATE SPIKE SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25239  
 Matrix Type: AQUEOUS

Methods: SW846 6010C  
 Units: ug/l

Prep Date:

10/05/15

Metal	Sample ml	Final ml	MC41804-6 Raw	PS Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
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Vanadium

Zinc

Zirconium

Associated samples MP25239: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (\*\*) Corr. sample result = Raw \* (sample volume / final volume)  
 (anr) Analyte not requested

8.1.5  
 8

BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: MC41909  
Account: TINJP - Tyco International  
Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25251 Methods: SW846 7470A  
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/07/15 10/07/15 10/07/15

Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Mercury	0.20	.038	.096	0.0069	<0.20	0.0057	<0.20	0.0067	<0.20

Associated samples MP25251: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
(\* ) Outside of QC limits  
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25251  
 Matrix Type: AQUEOUS

Methods: SW846 7470A  
 Units: ug/l

Prep Date: 10/07/15

Metal	MC41803-1 Original MS	Spike lot	HGRWS1	% Rec	QC Limits
Mercury	0.0	3.0	3	100.0	75-125

Associated samples MP25251: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

8.2.2  
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25251 Methods: SW846 7470A  
 Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/07/15

Metal	MC41803-1 Original MSD	SpikeLot HGRWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	3.0	3	100.0	0.0 20

Associated samples MP25251: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested

8.2.2  
8



SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC41909  
 Account: TINJP - Tyco International  
 Project: OMITK: Tyco Marinette FTC, 2700 Industrial Parkway South, Marinette, WI

QC Batch ID: MP25251 Methods: SW846 7470A  
 Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/07/15 10/07/15

Metal	BSP Result	Spikelot HGRWS1	% Rec	QC Limits	BSD Result	Spikelot HGRWS1	% Rec	BSD RPD	QC Limit
Mercury	3.1	3	103.3	80-120	3.0	3	100.0	3.3	20

Associated samples MP25251: MC41909-1F, MC41909-2F, MC41909-3F, MC41909-4F, MC41909-5F, MC41909-6F, MC41909-7F

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

8.2.3

8