



07/25/05

Technical Report for

Tetra Tech NUS

Former American Beryllium, Sarasota, FL

N1075

Accutest Job Number: F33465

Sampling Date: 07/22/05

Report to:

Total number of pages in report: 46



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

Harry Behzadi
Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Sample Summary

Tetra Tech NUS

Job No: F33465

Former American Beryllium, Sarasota, FL
Project No: N1075

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F33465-1	07/22/05	12:25	SRM 07/22/05	AQ	Ground Water	TT-MW-124
F33465-2	07/22/05	16:20	SRM 07/22/05	AQ	Ground Water	TT-MW-126

Report of Analysis

Client Sample ID:	TT-MW-124	Date Sampled:	07/22/05
Lab Sample ID:	F33465-1	Date Received:	07/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former American Beryllium, Sarasota, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0034107.D	1	07/25/05	KW	n/a	n/a	VC1389
Run #2							

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

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.0 U	25	5.0	ug/l	
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	ug/l	
67-66-3	Chloroform	0.94	1.0	0.50	ug/l	I
75-15-0	Carbon disulfide	1.0 U	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	ug/l	
354-23-4	1,2-Dichlorotrifluoroethane	0.50 U	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	0.40 U	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.30 U	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	ug/l	
591-78-6	2-Hexanone	2.5 U	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	2.5 U	5.0	2.5	ug/l	
79-20-9	Methyl Acetate	5.0 U	10	5.0	ug/l	

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
 RL = Reporting Limit V = Indicates analyte found in associated method blank
 L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT-MW-124	Date Sampled:	07/22/05
Lab Sample ID:	F33465-1	Date Received:	07/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former American Beryllium, Sarasota, FL		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-83-9	Methyl bromide	1.0 U	2.0	1.0	ug/l	
74-87-3	Methyl chloride	1.0 U	2.0	1.0	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.5 U	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.50 U	1.0	0.50	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.30 U	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	0.60 U	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	1.0 U	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	107%		73-126%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	97%		83-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
463-58-1	Carbonyl sulfide	4.53	6.6	ug/l	JN
	Total TIC, Volatile		6.6	ug/l	J

U = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 L = Indicates value exceeds calibration range

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 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT-MW-124	Date Sampled:	07/22/05
Lab Sample ID:	F33465-1	Date Received:	07/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former American Beryllium, Sarasota, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F010475.D	1	07/25/05	NJ	07/25/05	OP13912	SF587
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	2.0 U	5.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		49-119%
321-60-8	2-Fluorobiphenyl	66%		45-118%
1718-51-0	Terphenyl-d14	77%		46-135%

U = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT-MW-126	Date Sampled:	07/22/05
Lab Sample ID:	F33465-2	Date Received:	07/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former American Beryllium, Sarasota, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0034108.D	1	07/25/05	KW	n/a	n/a	VC1389
Run #2							

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

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone ^a	10.1	25	5.0	ug/l	I
71-43-2	Benzene	0.50 U	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	0.50 U	1.0	0.50	ug/l	
75-25-2	Bromoform	0.50 U	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	0.50 U	1.0	0.50	ug/l	
75-00-3	Chloroethane	1.0 U	2.0	1.0	ug/l	
67-66-3	Chloroform	1.1	1.0	0.50	ug/l	
75-15-0	Carbon disulfide	1.0 U	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	0.50 U	1.0	0.50	ug/l	
110-82-7	Cyclohexane	0.50 U	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	0.50 U	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.0 U	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	0.50 U	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.50 U	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	0.50 U	1.0	0.50	ug/l	
354-23-4	1,2-Dichlorotrifluoroethane	0.50 U	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	0.40 U	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.30 U	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	0.50 U	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.50 U	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.30 U	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	0.50 U	1.0	0.50	ug/l	
76-13-1	Freon 113	0.50 U	1.0	0.50	ug/l	
591-78-6	2-Hexanone	2.5 U	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	0.50 U	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	2.5 U	5.0	2.5	ug/l	
79-20-9	Methyl Acetate	5.0 U	10	5.0	ug/l	

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 RL = Reporting Limit V = Indicates analyte found in associated method blank
 L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT-MW-126	Date Sampled:	07/22/05
Lab Sample ID:	F33465-2	Date Received:	07/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Former American Beryllium, Sarasota, FL		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
74-83-9	Methyl bromide	1.0 U	2.0	1.0	ug/l	
74-87-3	Methyl chloride	1.0 U	2.0	1.0	ug/l	
108-87-2	Methylcyclohexane	0.50 U	1.0	0.50	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.5 U	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.0	1.0	0.50	ug/l	
100-42-5	Styrene	0.50 U	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	0.50 U	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.30 U	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.50 U	1.0	0.50	ug/l	
108-88-3	Toluene	0.50 U	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	0.50 U	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	0.60 U	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	0.50 U	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	1.0 U	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		86-115%
17060-07-0	1,2-Dichloroethane-D4	106%		73-126%
2037-26-5	Toluene-D8	95%		86-112%
460-00-4	4-Bromofluorobenzene	96%		83-119%

CAS No.	Tentatively Identified Compounds ^b	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) CCV outside of control limits; results may be biased low.
 (b) No TICs detected.

U = Not detected MDL - Method Detection Limit I = Result > = MDL but < RL J = Estimated value
 RL = Reporting Limit V = Indicates analyte found in associated method blank
 L = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT-MW-126	Date Sampled:	07/22/05
Lab Sample ID:	F33465-2	Date Received:	07/22/05
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270C SW846 3510C		
Project:	Former American Beryllium, Sarasota, FL		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F010476.D	1	07/25/05	NJ	07/25/05	OP13912	SF587
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	2.0 U	5.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		49-119%
321-60-8	2-Fluorobiphenyl	72%		45-118%
1718-51-0	Terphenyl-d14	75%		46-135%

U = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
 V = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: **F33469**
ACCUTEST QUOTE

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION										MATRIX CODES																																																																																															
NAME: <i>Tetra Tech</i> ADDRESS: <i>5421 Beaumont Center Blvd #660</i> CITY: <i>Tampa</i> STATE: <i>FL</i> ZIP: <i>33634</i> PHONE #: <i>813-806-0202/Paul Calligan</i>		PROJECT NAME: <i>Former American Beryllium</i> LOCATION: <i>Sarasota, Florida</i> PROJECT NO.: <i>N1075</i> FAX #: <i>813-806-0405</i>				8060 Include Freon, TICs 8270 1-4 Dioxane Only										DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID																																																																																															
SEND REPORT TO: PHONE #:		COLLECTION														PRESERVATION										LAB USE ONLY																																																																																					
ACCUTEST SAMPLE #		FIELD ID / POINT OF COLLECTION		DATE		TIME		SAMPLED BY:		MATRIX	# OF BOTTLES	HC1	HC2	HC3	HC4	HC5	HC6	HC7	HC8	HC9	HC10	HC11	HC12	HC13	HC14	HC15	HC16	HC17	HC18	HC19	HC20	HC21	HC22	HC23	HC24	HC25	HC26	HC27	HC28	HC29	HC30	HC31	HC32	HC33	HC34	HC35	HC36	HC37	HC38	HC39	HC40	HC41	HC42	HC43	HC44	HC45	HC46	HC47	HC48	HC49	HC50	HC51	HC52	HC53	HC54	HC55	HC56	HC57	HC58	HC59	HC60	HC61	HC62	HC63	HC64	HC65	HC66	HC67	HC68	HC69	HC70	HC71	HC72	HC73	HC74	HC75	HC76	HC77	HC78	HC79	HC80	HC81	HC82	HC83	HC84	HC85	HC86	HC87	HC88	HC89	HC90	HC91	HC92	HC93	HC94	HC95	HC96	HC97	HC98	HC99	HC100
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION				COMMENTS/REMARKS																																																																																																									
<input type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input checked="" type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER		APPROVED BY: _____				<input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____				<i>TBT ASAP</i>																																																																																																					
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<i>ASAP</i>																																																																																																													
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																																																																																																															
RELINQUISHED BY SAMPLER: <i>1. M. Smith</i>	DATE TIME: <i>7-22-05 1710</i>	RECEIVED BY: <i>1. Stephen C. Gentry</i>	RELINQUISHED BY: <i>2.</i>	DATE TIME: <i>7-22-05 1718</i>	RECEIVED BY:	RELINQUISHED BY: <i>3. Stephen C. Gentry</i>	DATE TIME: <i>7-22-05 1900</i>	RECEIVED BY: <i>3. [Signature]</i>	RELINQUISHED BY: <i>4.</i>	DATE TIME:	RECEIVED BY: <i>4.</i>	RELINQUISHED BY: <i>5.</i>	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE	<input type="checkbox"/>	ON ICE	<input checked="" type="checkbox"/>	TEMPERATURE	<i>2.4</i>	C																																																																																									

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ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F33465 CLIENT: TRUS PROJECT: Former American Beryllium
DATE/TIME RECEIVED: 07/22/05 - 1900 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.4°
METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
AIRBILL NUMBERS:

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
- NO COC RECEIVED
- ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- TRIP BLANK NOT PROVIDED
- TRIP BLANK NOT ON COC
- TRIP BLANK INTACT
- TRIP BLANK NOT INTACT
- RECEIVED WATER TRIP BLANK
- RECEIVED SOIL TRIP BLANK

SOIL INFORMATION

NUMBER OF ENCORES ? 0
NUMBER OF 5035 FIELD KITS ? 0

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
- CORRECT NUMBER OF CONTAINERS USED
- SAMPLE RECEIVED IMPROPERLY PRESERVED
- INSUFFICIENT VOLUME FOR ANALYSIS
- TIMES ON COC DON'T MATCH LABEL
- ID'S ON COC DON'T MATCH LABEL
- VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- UNCLEAR FILTERING INSTRUCTIONS
- UNCLEAR COMPOSITING INSTRUCTIONS
- SAMPLE(S) RECEIVED BROKEN
- % SOLIDS JAR NOT RECEIVED

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [Signature] 8/7/05

TECHNICIAN SIGNATURE/DATE [Signature]

ASBD06/22/05

F33465: Chain of Custody

Page 2 of 2

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1389-MB	C0034099.D	1	07/25/05	KW	n/a	n/a	VC1389

The QC reported here applies to the following samples:

Method: SW846 8260B

F33465-1, F33465-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.50	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
354-23-4	1,2-Dichlorotrifluoroethane	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.50	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
76-13-1	Freon 113	ND	1.0	0.50	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.5	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	2.5	ug/l	
79-20-9	Methyl Acetate	ND	10	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	

Method Blank Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1389-MB	C0034099.D	1	07/25/05	KW	n/a	n/a	VC1389

The QC reported here applies to the following samples:

Method: SW846 8260B

F33465-1, F33465-2

CAS No.	Compound	Result	RL	MDL	Units	Q
78-93-3	Methyl ethyl ketone	ND	5.0	2.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
100-42-5	Styrene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.30	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.60	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	3.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 86-115%
17060-07-0	1,2-Dichloroethane-D4	95% 73-126%
2037-26-5	Toluene-D8	102% 86-112%
460-00-4	4-Bromofluorobenzene	102% 83-119%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile ^a		0	ug/l	

(a) No TICs detected.

Blank Spike Summary

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1389-BS	C0034098.D	1	07/25/05	KW	n/a	n/a	VC1389

The QC reported here applies to the following samples:

Method: SW846 8260B

F33465-1, F33465-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	116	93	44-142
71-43-2	Benzene	25	26.7	107	80-120
75-27-4	Bromodichloromethane	25	25.7	103	75-120
75-25-2	Bromoform	25	22.4	90	60-129
108-90-7	Chlorobenzene	25	24.5	98	82-112
75-00-3	Chloroethane	25	29.0	116	67-148
67-66-3	Chloroform	25	25.5	102	78-118
75-15-0	Carbon disulfide	25	15.6	62*	65-147
56-23-5	Carbon tetrachloride	25	28.2	113	69-137
110-82-7	Cyclohexane	25	25.3	101	77-140
75-34-3	1,1-Dichloroethane	25	26.2	105	75-117
75-35-4	1,1-Dichloroethylene	25	25.1	100	67-134
96-12-8	1,2-Dibromo-3-chloropropane	25	20.2	81	54-125
106-93-4	1,2-Dibromoethane	25	23.8	95	68-116
107-06-2	1,2-Dichloroethane	25	24.7	99	68-121
78-87-5	1,2-Dichloropropane	25	25.8	103	78-122
354-23-4	1,2-Dichlorotrifluoroethane	25	24.7	99	62-132
124-48-1	Dibromochloromethane	25	23.6	94	68-118
75-71-8	Dichlorodifluoromethane	25	33.6	134	43-173
156-59-2	cis-1,2-Dichloroethylene	25	27.7	111	81-120
10061-01-5	cis-1,3-Dichloropropene	25	24.8	99	73-115
541-73-1	m-Dichlorobenzene	25	22.0	88	78-116
95-50-1	o-Dichlorobenzene	25	21.3	85	77-115
106-46-7	p-Dichlorobenzene	25	24.2	97	77-113
156-60-5	trans-1,2-Dichloroethylene	25	25.9	104	74-125
10061-02-6	trans-1,3-Dichloropropene	25	23.3	93	69-115
100-41-4	Ethylbenzene	25	25.6	102	82-115
76-13-1	Freon 113	25	20.4	82	72-148
591-78-6	2-Hexanone	125	109	87	60-125
98-82-8	Isopropylbenzene	25	25.7	103	83-129
108-10-1	4-Methyl-2-pentanone	125	113	90	61-128
79-20-9	Methyl Acetate	125	106	85	58-135
74-83-9	Methyl bromide	25	28.6	114	60-165
74-87-3	Methyl chloride	25	25.6	102	58-152
108-87-2	Methylcyclohexane	25	28.1	112	84-135
75-09-2	Methylene chloride	25	25.1	100	66-125

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Blank Spike Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC1389-BS	C0034098.D	1	07/25/05	KW	n/a	n/a	VC1389

The QC reported here applies to the following samples:

Method: SW846 8260B

F33465-1, F33465-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
78-93-3	Methyl ethyl ketone	125	115	92	58-127
1634-04-4	Methyl Tert Butyl Ether	25	28.2	113	67-127
100-42-5	Styrene	25	26.4	106	58-125
71-55-6	1,1,1-Trichloroethane	25	27.6	110	78-132
79-34-5	1,1,2,2-Tetrachloroethane	25	20.8	83	67-119
79-00-5	1,1,2-Trichloroethane	25	23.4	94	74-115
120-82-1	1,2,4-Trichlorobenzene	25	18.4	74	66-122
127-18-4	Tetrachloroethylene	25	28.3	113	75-126
108-88-3	Toluene	25	28.5	114	81-114
79-01-6	Trichloroethylene	25	25.8	103	80-115
75-69-4	Trichlorofluoromethane	25	29.6	118	65-163
75-01-4	Vinyl chloride	25	31.6	126	70-151
1330-20-7	Xylene (total)	75	77.2	103	81-118

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	86-115%
17060-07-0	1,2-Dichloroethane-D4	104%	73-126%
2037-26-5	Toluene-D8	99%	86-112%
460-00-4	4-Bromofluorobenzene	96%	83-119%

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Instrument Performance Check (BFB)

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample:	VC1377-BFB	Injection Date:	07/13/05
Lab File ID:	C0033801.D	Injection Time:	10:10
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	21370	21.3	Pass
75	30.0 - 60.0% of mass 95	47229	47.1	Pass
95	Base peak, 100% relative abundance	100258	100.0	Pass
96	5.0 - 9.0% of mass 95	6585	6.6	Pass
173	Less than 2.0% of mass 174	429	0.43 (0.48) ^a	Pass
174	50.0 - 100.0% of mass 95	90109	89.9	Pass
175	5.0 - 9.0% of mass 174	6281	6.3 (7.0) ^a	Pass
176	95.0 - 101.0% of mass 174	90957	90.7 (100.9) ^a	Pass
177	5.0 - 9.0% of mass 176	5663	5.6 (6.2) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC1377-IC1377	C0033802.D	07/13/05	10:36	00:26	Initial cal 1
VC1377-IC1377	C0033803.D	07/13/05	11:03	00:53	Initial cal 5
VC1377-IC1377	C0033804.D	07/13/05	11:30	01:20	Initial cal 20
VC1377-ICC1377	C0033805.D	07/13/05	11:58	01:48	Initial cal 40
VC1377-IC1377	C0033806.D	07/13/05	12:25	02:15	Initial cal 70
VC1377-IC1377	C0033807.D	07/13/05	12:52	02:42	Initial cal 100
VC1377-ICV1377	C0033808.D	07/13/05	14:26	04:16	Initial cal verification 40

Instrument Performance Check (BFB)

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample:	VC1389-BFB	Injection Date:	07/25/05
Lab File ID:	C0034096.D	Injection Time:	09:17
Instrument ID:	GCMSC		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	22357	20.0	Pass
75	30.0 - 60.0% of mass 95	54178	48.4	Pass
95	Base peak, 100% relative abundance	111858	100.0	Pass
96	5.0 - 9.0% of mass 95	8104	7.2	Pass
173	Less than 2.0% of mass 174	462	0.41 (0.46) ^a	Pass
174	50.0 - 100.0% of mass 95	100176	89.6	Pass
175	5.0 - 9.0% of mass 174	7018	6.3 (7.0) ^a	Pass
176	95.0 - 101.0% of mass 174	97712	87.4 (97.5) ^a	Pass
177	5.0 - 9.0% of mass 176	5890	5.3 (6.0) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC1389-CC1377	C0034097.D	07/25/05	09:33	00:16	Continuing cal 40
VC1389-BS	C0034098.D	07/25/05	10:00	00:43	Blank Spike
VC1389-MB	C0034099.D	07/25/05	10:30	01:13	Method Blank
ZZZZZZ	C0034105.D	07/25/05	13:15	03:58	(unrelated sample)
ZZZZZZ	C0034106.D	07/25/05	13:42	04:25	(unrelated sample)
F33465-1	C0034107.D	07/25/05	14:09	04:52	TT-MW-124
F33465-2	C0034108.D	07/25/05	14:37	05:20	TT-MW-126

Volatile Internal Standard Area Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Check Std:	VC1389-CC1377	Injection Date:	07/25/05
Lab File ID:	C0034097.D	Injection Time:	09:33
Instrument ID:	GCMSC	Method:	SW846 8260B

	IS 1		IS 2		IS 3		IS 4	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	1613005	10.23	1346661	13.47	723056	16.02	189367	7.46
Upper Limit ^a	3226010	10.73	2693322	13.97	1446112	16.52	378734	7.96
Lower Limit ^b	806503	9.73	673331	12.97	361528	15.52	94684	6.96

Lab Sample ID	IS 1		IS 2		IS 3		IS 4	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT
VC1389-BS	1584441	10.23	1286534	13.47	667557	16.02	185390	7.47
VC1389-MB	1849306	10.23	1422509	13.47	592215	16.02	191191	7.48
ZZZZZZ	1627781	10.24	1338799	13.47	593922	16.02	190863	7.48
ZZZZZZ	1532704	10.24	1239020	13.47	543294	16.02	186085	7.48
F33465-1	1480443	10.23	1188963	13.47	530951	16.02	182920	7.48
F33465-2	1435032	10.24	1165678	13.47	536625	16.02	173293	7.48

- IS 1 = Fluorobenzene
- IS 2 = Chlorobenzene-D5
- IS 3 = 1,4-Dichlorobenzene-d4
- IS 4 = Tert Butyl Alcohol-D10

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
 (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Method: SW846 8260B	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F33465-1	C0034107.D	105.0	107.0	97.0	97.0
F33465-2	C0034108.D	105.0	106.0	95.0	96.0
VC1389-BS	C0034098.D	104.0	104.0	99.0	96.0
VC1389-MB	C0034099.D	99.0	95.0	102.0	102.0

Surrogate Compounds **Recovery Limits**

S1 = Dibromofluoromethane	86-115%
S2 = 1,2-Dichloroethane-D4	73-126%
S3 = Toluene-D8	86-112%
S4 = 4-Bromofluorobenzene	83-119%

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Initial Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VC1377-ICC1377
 Lab FileID: C0033805.D

Response Factor Report MSVOA5

Method : C:\MSDCHEM\2\METHODS\82600713.M (RTE Integrator)
 Title : EPA 624 & SWA 5030B/8260B
 Last Update : Wed Jul 13 14:51:36 2005
 Response via : Initial Calibration

Calibration Files

1 =C0033802.D 2 =C0033803.D 3 =C0033804.D 4 =C0033805.D
 5 =C0033806.D 6 =C0033807.D

Compound	1	2	3	4	5	6	Avg	%RSD
1) I Fluorobenzene	-----I STD-----							
2) Di chloro di fluoromet	0.375	0.282	0.291	0.303	0.291	0.303	0.307	11.09
3) P Chloromethane	0.388	0.298	0.272	0.282	0.274	0.273	0.298	15.15
4) C Vinyl Chloride	0.241	0.189	0.183	0.200	0.202	0.210	0.204	10.10
5) Bromomethane	0.094	0.078	0.080	0.085	0.091	0.095	0.087	8.33
6) Chloroethane	0.087	0.078	0.077	0.082	0.083	0.085	0.082	4.72
7) Tri chloro fluorometh	0.347	0.265	0.263	0.278	0.291	0.291	0.289	10.60
8) 1,2-Di chloro tri fluo	0.411	0.329	0.291	0.314	0.303	0.289	0.323	14.11
9) Ethyl ether	0.278	0.256	0.235	0.249	0.242	0.233	0.249	6.82
10) Acrolein	0.002	0.005	0.006	0.007	0.007	0.007	0.006	29.47
---- Linear regr., Force(0,0) ---- Coefficient = 0.9998								
Response Ratio = 0.0000 + 0.00681 *A								
11) Freon 113	0.206	0.231	0.202	0.236	0.211	0.202	0.215	7.01
12) Acetone	0.156	0.139	0.117	0.131	0.119	0.107	0.128	13.70
13) C 1,1-Di chloro ethene	0.558	0.437	0.412	0.467	0.459	0.436	0.461	11.08
14) Iodomethane	0.366	0.337	0.327	0.387	0.359	0.354	0.355	6.03
15) Methyl Acetate	0.241	0.228	0.208	0.224	0.209	0.199	0.218	7.10
16) Carbon Disulfide	1.116	0.907	0.850	0.891	0.872	0.841	0.913	11.21
17) Methylene Chloride	0.717	0.537	0.490	0.500	0.471	0.448	0.527	18.53
---- Linear regr., Force(0,0) ---- Coefficient = 0.9978								
Response Ratio = 0.0000 + 0.46060 *A								
18) Acrylonitrile	0.083	0.085	0.101	0.104	0.102	0.101	0.096	9.72
19) Methyl Tert Butyl E	0.619	0.614	0.620	0.651	0.613	0.595	0.619	2.93
20) trans-1,2-Di chloro e	0.499	0.438	0.451	0.456	0.444	0.428	0.453	5.50
21) Hexane	0.550	0.456	0.465	0.480	0.478	0.462	0.482	7.16
22) Vinyl acetate	0.344	0.359	0.413	0.395	0.367	0.332	0.368	8.32
23) Di-isopropyl ether	1.033	1.067	1.077	1.058	0.965	0.876	1.013	7.71
24) P 1,1-Di chloro ethane	0.643	0.589	0.574	0.561	0.531	0.510	0.568	8.21
25) ETBE	0.839	0.848	0.880	0.916	0.880	0.866	0.871	3.14
26) 2-Butanone	0.180	0.180	0.162	0.171	0.157	0.149	0.166	7.75
27) ci s-1,2-Di chloro eth	0.314	0.287	0.293	0.287	0.268	0.259	0.284	6.77
28) 2,2-Di chloro propane	0.305	0.291	0.299	0.286	0.275	0.261	0.286	5.67
29) Bromochloromethane	0.122	0.123	0.127	0.126	0.116	0.116	0.122	3.87
30) C Chloroform	0.569	0.532	0.533	0.526	0.502	0.491	0.525	5.23
31) Tetrahydrofuran	0.084	0.080	0.081	0.086	0.082	0.079	0.082	3.21
32) S Dibromofluoromethan	0.245	0.238	0.257	0.258	0.253	0.255	0.251	3.10
33) 1,1,1-Tri chloro etha	0.441	0.404	0.398	0.401	0.388	0.383	0.403	5.09
34) Cyclohexane	0.551	0.510	0.520	0.539	0.532	0.509	0.527	3.18
35) 1,1-Di chloro propene	0.385	0.372	0.377	0.376	0.364	0.351	0.371	3.15
36) Carbon Tetrachlorid	0.360	0.347	0.353	0.355	0.350	0.345	0.352	1.56
37) S 1,2-Di chloro ethane-	0.320	0.326	0.358	0.344	0.345	0.329	0.337	4.23
38) 1,2-Di chloro ethane	0.521	0.496	0.487	0.485	0.454	0.438	0.480	6.24
39) Benzene	1.298	1.191	1.107	1.040	0.928	0.873	1.073	14.93
40) TAME	0.796	0.846	0.819	0.816	0.742	0.718	0.790	6.24

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Initial Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VC1377-ICC1377
 Lab FileID: C0033805.D

41)	Tri chloroethene	0.356	0.313	0.291	0.291	0.285	0.280	0.303	9.47
42) C	1,2-Di chloropropane	0.399	0.381	0.351	0.345	0.315	0.297	0.348	11.06
43)	Methyl cycl ohexane	0.524	0.467	0.458	0.451	0.424	0.406	0.455	8.97
44)	Di bromomethane	0.200	0.206	0.190	0.196	0.184	0.182	0.193	4.75
45)	Bromodi chl oromethan	0.448	0.450	0.433	0.430	0.417	0.410	0.431	3.69
46)	2-Ni tropopropane	0.071	0.088	0.084	0.089	0.081	0.074	0.081	9.07
47)	2-Chl oroethyl vinyl	0.134	0.173	0.179	0.179	0.157	0.146	0.161	11.62
48)	ci s-1,3-Di chl oropro	0.456	0.484	0.497	0.518	0.494	0.488	0.489	4.11
49)	4-Methyl -2-pentanon	0.275	0.367	0.322	0.329	0.293	0.265	0.309	12.42
50) I	Chl orobenzene-d5	-----I STD-----							
51) S	Tol uene-d8	1.355	1.321	1.307	1.266	1.255	1.303	1.301	2.79
52) C	Tol uene	2.510	1.958	1.653	1.589	1.454	1.449	1.769	23.08
		---- Linear regr., Force(0,0) ---- Coeffi cient = 0.9987							
		Response Ratio = 0.00000 + 1.46898 *A							
53)	trans-1,3-Di chl orop	0.599	0.594	0.598	0.618	0.592	0.597	0.600	1.55
54)	1,1,2-Tri chl oroetha	0.365	0.386	0.321	0.324	0.295	0.298	0.332	11.01
55)	2-hexanone	0.249	0.345	0.304	0.325	0.280	0.259	0.294	12.83
56)	1,3-Di chl oropropane	0.698	0.694	0.634	0.618	0.545	0.533	0.620	11.37
57)	Tetrachl oroethene	0.622	0.514	0.457	0.434	0.400	0.404	0.472	17.94
		---- Linear regr., Force(0,0) ---- Coeffi cient = 0.9989							
		Response Ratio = 0.00000 + 0.40682 *A							
58)	Di bromochl oromethan	0.428	0.446	0.417	0.419	0.403	0.406	0.420	3.72
59)	1,2-Di bromoethane	0.353	0.384	0.360	0.371	0.351	0.353	0.362	3.64
60)	1-Chl orohexane	0.408	0.476	0.491	0.514	0.499	0.504	0.482	8.00
61) P	Chl orobenzene	1.369	1.306	1.151	1.125	1.035	1.022	1.168	12.14
62)	1,1,1,2-Tetrachl oro	0.486	0.456	0.399	0.380	0.331	0.320	0.395	16.75
		---- Quadratic regr., Force(0,0) ---- Coeffi cient = 0.9987							
		Response Ratio = 0.00000 + 0.40215 *A + -0.04247 *A^2							
63) C	Ethyl benzene	2.124	2.065	1.856	1.786	1.603	1.543	1.830	12.89
64)	m,p-Xyl ene	1.622	1.581	1.432	1.387	1.234	1.181	1.406	12.66
65)	o-Xyl ene	1.540	1.620	1.530	1.489	1.310	1.248	1.456	9.96
66)	Styrene	0.884	1.120	1.130	1.106	0.972	0.922	1.022	10.70
67) P	Bromoform	0.264	0.313	0.285	0.311	0.302	0.305	0.297	6.33
68) I	1,4-Di chl orobenzene-d	-----I STD-----							
69)	Isopropyl benzene	3.964	3.744	3.539	3.489	3.156	3.137	3.505	9.26
70)	Cycl ohexanone	0.061	0.027	0.023	0.025	0.025	0.027	0.031	46.87
		---- Quadratic regr., Force(0,0) ---- Coeffi cient = 0.9995							
		Response Ratio = 0.00000 + 0.02224 *A + 0.00044 *A^2							
71) S	4-Bromofl uorobenzen	1.114	1.039	1.013	1.004	0.989	1.026	1.031	4.28
72) P	1,1,2,2-Tetrachl oro	1.378	1.379	1.017	0.986	0.862	0.877	1.083	21.83
73)	trans-1,4-Di chl oro-	0.193	0.237	0.199	0.228	0.219	0.235	0.218	8.59
74)	1,2,3-Tri chl oroprop	0.320	0.334	0.266	0.261	0.228	0.240	0.275	15.59
		---- Quadratic regr., Force(0,0) ---- Coeffi cient = 0.9967							
		Response Ratio = 0.00000 + 0.25487 *A + -0.00936 *A^2							
75)	Bromobenzene	1.196	1.182	0.961	0.919	0.768	0.748	0.962	20.15
		---- Quadratic regr., Force(0,0) ---- Coeffi cient = 0.9972							
		Response Ratio = 0.00000 + 0.97010 *A + -0.11619 *A^2							
76)	n-Propyl benzene	4.905	4.667	4.256	4.115	3.615	3.528	4.181	13.18
77)	1,3,5-Tri methyl benz	3.020	3.120	2.836	2.679	2.320	2.291	2.711	12.87
78)	2-Chl orotol uene	3.831	3.421	2.951	2.752	2.357	2.325	2.939	20.29
		---- Quadratic regr., Force(0,0) ---- Coeffi cient = 0.9976							
		Response Ratio = 0.00000 + 2.88819 *A + -0.29725 *A^2							

Initial Calibration Summary

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: VC1377-ICC1377
Lab FileID: C0033805.D

79)	4-Chl orotol uene	2.978	2.899	2.615	2.642	2.397	2.399	2.655	9.19
80)	tert-Butyl benzene	2.226	2.200	1.812	2.074	1.897	1.903	2.019	8.58
81)	1, 2, 4-Tri methyl benz	3.028	3.012	2.896	2.883	2.600	2.599	2.836	6.79
82)	sec-Butyl benzene	4.004	3.829	3.679	3.675	3.351	3.304	3.640	7.45
83)	4-Isopropyl tol uene	2.967	2.917	2.983	2.966	2.721	2.703	2.876	4.49
84)	1, 3-Di chl orobenzene	2.042	1.955	1.779	1.775	1.597	1.591	1.790	10.24
85)	1, 4-Di chl orobenzene	2.250	2.072	1.744	1.727	1.567	1.564	1.821	15.39
	---- Linear regr., Force(0,0)								---- Coefficient = 0.9985
									Response Ratio = 0.00000 + 1.58510 *A
86)	Benzyl chl oride	1.344	1.445	1.346	1.519	1.416	1.455	1.421	4.76
87)	n-Butyl benzene	2.767	2.636	2.775	2.879	2.699	2.655	2.735	3.31
88)	1, 2-Di chl orobenzene	2.128	1.994	1.740	1.767	1.583	1.556	1.795	12.61
89)	1, 2-Di bromo-3-Chl or	0.198	0.158	0.126	0.138	0.128	0.137	0.147	18.37
	---- Linear regr., Force(0,0)								---- Coefficient = 0.9976
									Response Ratio = 0.00000 + 0.13408 *A
90)	1, 2, 4-Tri chl orobenz	1.239	0.827	0.760	0.848	0.851	0.903	0.904	18.84
	---- Linear regr., Force(0,0)								---- Coefficient = 0.9978
									Response Ratio = 0.00000 + 0.87896 *A
91)	Hexachl orobutadi ene	0.947	0.557	0.484	0.520	0.501	0.509	0.586	30.40
	---- Linear regr., Force(0,0)								---- Coefficient = 0.9996
									Response Ratio = 0.00000 + 0.50737 *A
92)	Naphthal ene	2.951	1.464	1.399	1.696	1.660	1.773	1.824	31.28
	---- Quadratic regr., Force(0,0)								---- Coefficient = 0.9988
									Response Ratio = 0.00000 + 1.49633 *A + 0.13588 *A^2
93)	1, 2, 3-Tri chl orobenz	1.342	0.696	0.624	0.724	0.704	0.738	0.805	33.07
	---- Linear regr., Force(0,0)								---- Coefficient = 0.9982
									Response Ratio = 0.00000 + 0.72384 *A
94) I	Tert Butyl alcohol -d1	----- STD -----							
95)	Tert-Butyl alcohol	1.566	1.799	1.307	1.301	1.225	1.207	1.401	16.68
	---- Linear regr., Force(0,0)								---- Coefficient = 0.9992
									Response Ratio = 0.00000 + 1.22451 *A
96)	Tert Amyl Alcohol	0.847	1.435	1.099	1.067	1.027	1.009	1.081	17.97
	---- Linear regr., Force(0,0)								---- Coefficient = 0.9993
									Response Ratio = 0.00000 + 1.02229 *A
97)	1, 4-Di oxane	0.102	0.166	0.144	0.134	0.126	0.128	0.133	15.87
	---- Linear regr., Force(0,0)								---- Coefficient = 0.9990
									Response Ratio = 0.00000 + 0.12836 *A

(#) = Out of Range

82600713.M

Thu Jul 14 08:16:44 2005

Initial Calibration Verification

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VC1377-ICV1377
 Lab FileID: C0033808.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\071305\C0033808.D
 Acq On : 13 Jul 2005 2:26 pm
 Sample : ICV1377-40
 Misc : ms4725,vc1377,,,,,
 MS Integration Params: Rteint.p

Vial : 7
 Operator: KarenW
 Inst : MSVOA5
 Multiplr: 1.00

Method : C:\MSDCHEM\2\METHODS\82600713.M (RTE Integrator)
 Title : EPA 624 & SWA 5030B/8260B
 Last Update : Wed Jul 13 14:51:36 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50mi n
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(mi n)	R. T.
1 I	Fluorobenzene	1.000	1.000	0.0	137	0.00	10.23
2	Dichlorodifluoromethane	0.307	0.312	-1.6	141	0.00	4.56
3 P	Chloromethane	0.298	0.276	7.4	134	0.00	4.93
4 C	Vinyl Chloride	0.204	0.237	-16.2	163	-0.01	5.16
5	Bromomethane	0.087	0.108	-24.1#	175	0.02	5.77
6	Chloroethane	0.082	0.096	-17.1	161	0.00	5.92
7	Trichlorofluoromethane	0.289	0.320	-10.7	158	0.00	6.30
8	1,2-Dichlorotrifluoroethane	0.323	0.302	6.5	132	-0.03	6.59
9	Ethyl ether	0.249	0.205	17.7	113	0.00	6.62
----- Amount Cal c. %Dri ft -----							
10	Acrolein	200.000	368.365	-84.2#	250	0.00	6.82
----- AvgRF CCRF %Dev -----							
11	Freon 113	0.215	0.155	27.9#	90	0.00	6.98
12	Acetone	0.128	0.110	14.1	115	0.00	6.99
13 C	1,1-Dichloroethene	0.461	0.411	10.8	121	0.00	7.02
14	Iodomethane	0.355	0.273	23.1#	97	0.00	7.28
15	Methyl Acetate	0.218	0.182	16.5	111	0.00	7.38
16	Carbon Disulfide	0.913	0.473	48.2#	73	0.00	7.41
----- Amount Cal c. %Dri ft -----							
17	Methylene Chloride	40.000	36.267	9.3	114	0.00	7.60
----- AvgRF CCRF %Dev -----							
18	Acrylonitrile	0.096	0.045	53.1#	60	0.00	7.81
19	Methyl Tert Butyl Ether	0.619	0.667	-7.8	141	0.00	7.85
20	trans-1,2-Dichloroethene	0.453	0.412	9.1	124	0.00	7.89
21	Hexane	0.482	0.343	28.8#	98	0.00	8.17
22	Vinyl acetate	0.368	0.367	0.3	127	0.00	8.33
23	Diisopropyl ether	1.013	0.906	10.6	117	0.00	8.35
24 P	1,1-Dichloroethane	0.568	0.515	9.3	126	0.00	8.37
25	ETBE	0.871	0.914	-4.9	137	0.00	8.75
26	2-Butanone	0.166	0.138	16.9	111	0.00	8.95
27	cis-1,2-Dichloroethene	0.284	0.279	1.8	133	0.00	9.00
28	2,2-Dichloropropane	0.286	0.270	5.6	130	0.00	9.03
29	Bromochloromethane	0.122	0.134	-9.8	145	0.00	9.28
30 C	Chloroform	0.525	0.486	7.4	127	0.00	9.31
31	Tetrahydrofuran	0.082	0.080	2.4	128	0.00	9.34
32 S	Dibromofluoromethane	0.251	0.252	-0.4	134	0.00	9.49
33	1,1,1-Tri chloroethane	0.403	0.375	6.9	128	0.00	9.59
34	Cyclohexane	0.527	0.463	12.1	118	0.00	9.68

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Initial Calibration Verification

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VC1377-ICV1377
 Lab FileID: C0033808.D

35	1, 1-Di chl oropropene	0.371	0.344	7.3	125	0.00	9.74
36	Carbon Tetrachl ori de	0.352	0.336	4.5	130	0.00	9.78
37 S	1, 2-Di chl oroethane-d4	0.337	0.322	4.5	128	0.00	9.88
38	1, 2-Di chl oroethane	0.480	0.433	9.8	122	0.00	9.96
39	Benzene	1.073	0.999	6.9	132	0.00	9.98
40	TAME	0.790	0.743	5.9	125	0.00	9.99
41	Tri chl oroethene	0.303	0.283	6.6	133	0.00	10.63
42 C	1, 2-Di chl oropropane	0.348	0.323	7.2	128	0.00	10.87
43	Methyl cycl ohexane	0.455	0.437	4.0	133	0.00	10.88
44	Di bromomethane	0.193	0.181	6.2	127	0.00	11.01
45	Bromodi chl oromethane	0.431	0.408	5.3	130	0.00	11.12
46	2-Ni trop propane	0.081	0.074	8.6	114	0.00	11.31
47	2-Chl oroethyl vinyl ether	0.161	0.171	-6.2	131	0.00	11.33
48	ci s-1, 3-Di chl oropropene	0.489	0.472	3.5	125	0.00	11.57
49	4-Methyl -2-pentanone	0.309	0.274	11.3	114	0.00	11.65
50 I	Chl orobenzene-d5	1.000	1.000	0.0	131	0.00	13.47
51 S	Tol uene-d8	1.301	1.315	-1.1	136	0.00	11.89
		----- Amount	Cal c.	%Dri ft	-----		
52 C	Tol uene	40.000	42.612	-6.5	129	0.00	11.96
		----- AvgRF	CCRF	%Dev	-----		
53	trans-1, 3-Di chl oropropene	0.600	0.584	2.7	124	0.00	12.12
54	1, 1, 2-Tri chl oroethane	0.332	0.309	6.9	125	0.00	12.35
55	2-hexanone	0.294	0.269	8.5	108	0.00	12.52
56	1, 3-Di chl oropropane	0.620	0.578	6.8	123	0.00	12.55
		----- Amount	Cal c.	%Dri ft	-----		
57	Tetrachl oroethene	40.000	42.173	-5.4	130	0.00	12.58
		----- AvgRF	CCRF	%Dev	-----		
58	Di bromochl oromethane	0.420	0.398	5.2	125	0.00	12.83
59	1, 2-Di bromoethane	0.362	0.355	1.9	126	0.00	13.01
60	1-Chl orohexane	0.482	0.553	-14.7	141	0.00	13.36
61 P	Chl orobenzene	1.168	1.101	5.7	129	0.00	13.50
		----- Amount	Cal c.	%Dri ft	-----		
62	1, 1, 1, 2-Tetrachl oroethane	40.000	38.166	4.6	122	0.00	13.56
		----- AvgRF	CCRF	%Dev	-----		
63 C	Ethyl benzene	1.830	1.761	3.8	129	0.00	13.56
64	m, p-Xyl ene	1.406	1.360	3.3	129	0.00	13.67
65	o-Xyl ene	1.456	1.436	1.4	127	0.00	14.13
66	Styrene	1.022	1.064	-4.1	126	0.00	14.14
67 P	Bromoform	0.297	0.285	4.0	120	0.00	14.42
68 I	1, 4-Di chl orobenzene-d4	1.000	1.000	0.0	127	0.00	16.02
69	I sopropyl benzene	3.505	3.466	1.1	126	0.00	14.51
		----- Amount	Cal c.	%Dri ft	-----		
70	Cycl ohexanone	200.000	194.442	2.8	120	0.00	14.68
		----- AvgRF	CCRF	%Dev	-----		
71 S	4-Bromofl uorobenzene	1.031	1.032	-0.1	131	0.00	14.72
72 P	1, 1, 2, 2-Tetrachl oroethane	1.083	0.943	12.9	121	0.00	14.80
73	trans-1, 4-Di chl oro-2-bute	0.218	0.236	-8.3	131	0.00	14.85
		----- Amount	Cal c.	%Dri ft	-----		
74	1, 2, 3-Tri chl oropropane	40.000	40.006	-0.0	120	0.00	14.90

4.6
4

Initial Calibration Verification

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VC1377-ICV1377
 Lab FileID: C0033808.D

75	Bromobenzene	40.000	39.984	0.0	121	0.00	14.95
	----- AvgRF	CCRF	%Dev	-----			
76	n-Propyl benzene	4.181	4.127	1.3	127	0.00	14.96
77	1, 3, 5-Tri methyl benzene	2.711	2.647	2.4	125	0.00	15.12
	----- Amount	Cal c.	%Dri ft	-----			
78	2-Chl orotol uene	40.000	40.242	-0.6	123	0.00	15.12
	----- AvgRF	CCRF	%Dev	-----			
79	4-Chl orotol uene	2.655	2.513	5.3	121	0.00	15.23
80	tert-Butyl benzene	2.019	1.968	2.5	120	0.00	15.52
81	1, 2, 4-Tri methyl benzene	2.836	2.742	3.3	121	0.00	15.56
82	sec-Butyl benzene	3.640	3.570	1.9	123	0.00	15.75
83	4-Isopropyl tol uene	2.876	2.898	-0.8	124	0.00	15.88
84	1, 3-Di chl orobenzene	1.790	1.643	8.2	118	0.00	15.96
	----- Amount	Cal c.	%Dri ft	-----			
85	1, 4-Di chl orobenzene	40.000	40.764	-1.9	119	0.00	16.05
	----- AvgRF	CCRF	%Dev	-----			
86	Benzyl chl ori de	1.421	1.612	-13.4	135	0.00	16.16
87	n-Butyl benzene	2.735	2.715	0.7	120	0.00	16.33
88	1, 2-Di chl orobenzene	1.795	1.619	9.8	116	0.00	16.48
	----- Amount	Cal c.	%Dri ft	-----			
89	1, 2-Di bromo-3-Chl oropropa	40.000	36.678	8.3	114	0.00	17.32
90	1, 2, 4-Tri chl orobenzene	40.000	36.263	9.3	119	0.00	18.32
91	Hexachl orobutadi ene	40.000	40.043	-0.1	124	0.00	18.47
92	Naphthal ene	40.000	38.615	3.5	116	0.00	18.68
93	1, 2, 3-Tri chl orobenzene	40.000	37.715	5.7	120	0.00	18.99
	----- AvgRF	CCRF	%Dev	-----			
94 I	Tert Butyl al cohol -d10	1.000	1.000	0.0	143	0.00	7.47
	----- Amount	Cal c.	%Dri ft	-----			
95	Tert-Butyl al cohol	400.000	388.432	2.9	131	0.00	7.57
96	Tert Amyl Al cohol	400.000	393.549	1.6	135	0.00	9.79
97	1, 4-Di oxane	800.000	759.970	5.0	130	0.00	10.97

(#) = Out of Range
 C0033805.D 82600713.M

SPCC's out = 0 CCC's out = 0
 Thu Jul 14 08:15:46 2005

4.6
4

Continuing Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VC1389-CC1377
 Lab FileID: C0034097.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\072505\C0034097.D Vial : 1
 Acq On : 25 Jul 2005 9:33 am Operator: KarenW
 Sample : CC1377-40 Inst : MSVOA5
 Misc : ms4772,vc1389,,,,, Multiplr: 1.00
 MS Integration Params: Rteint.p

Method : C:\MSDCHEM\2\METHODS\82600713.M (RTE Integrator)
 Title : EPA 624 & SWA 5030B/8260B
 Last Update : Wed Jul 13 14:51:36 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50mi n
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(mi n)	R. T.
1 I	Fluorobenzene	1.000	1.000	0.0	114	0.00	10.23
2	Dichlorodifluoromethane	0.307	0.324	-5.5	122	0.00	4.55
3 P	Chloromethane	0.298	0.283	5.0	115	0.00	4.93
4 C	Vinyl Chloride	0.204	0.219	-7.4	126	0.00	5.16
5	Bromomethane	0.087	0.092	-5.7	124	0.02	5.77
6	Chloroethane	0.082	0.086	-4.9	120	0.02	5.94
7	Trichlorofluoromethane	0.289	0.321	-11.1	132	-0.01	6.30
8	1,2-Dichlorotrifluoroethane	0.323	0.307	5.0	112	-0.03	6.59
9	Ethyl ether	0.249	0.255	-2.4	117	0.00	6.62
----- Amount Cal c. %Dri ft -----							
10	Acrolein	200.000	184.733	7.6	105	0.00	6.82
----- AvgRF CCRF %Dev -----							
11	Freon 113	0.215	0.204	5.1	99	0.00	6.97
12	Acetone	0.128	0.099	22.7#	87	0.00	7.00
13 C	1,1-Dichloroethene	0.461	0.422	8.5	104	0.01	7.03
14	Iodomethane	0.355	0.320	9.9	95	0.00	7.27
15	Methyl Acetate	0.218	0.201	7.8	103	0.00	7.38
16	Carbon Disulfide	0.913	0.826	9.5	106	0.00	7.40
----- Amount Cal c. %Dri ft -----							
17	Methylene Chloride	40.000	39.218	2.0	103	0.00	7.60
----- AvgRF CCRF %Dev -----							
18	Acrylonitrile	0.096	0.099	-3.1	108	0.00	7.81
19	Methyl Tert Butyl Ether	0.619	0.638	-3.1	112	0.00	7.85
20	trans-1,2-Dichloroethene	0.453	0.431	4.9	108	0.00	7.90
21	Hexane	0.482	0.454	5.8	108	0.00	8.18
22	Vinyl acetate	0.368	0.361	1.9	105	0.00	8.33
23	Diisopropyl ether	1.013	0.971	4.1	105	0.00	8.35
24 P	1,1-Dichloroethane	0.568	0.557	1.9	114	0.00	8.37
25	ETBE	0.871	0.887	-1.8	111	0.00	8.75
26	2-Butanone	0.166	0.143	13.9	96	0.00	8.95
27	cis-1,2-Dichloroethene	0.284	0.294	-3.5	117	0.00	9.00
28	2,2-Dichloropropane	0.286	0.283	1.0	113	0.00	9.03
29	Bromochloromethane	0.122	0.127	-4.1	116	0.00	9.28
30 C	Chloroform	0.525	0.533	-1.5	116	0.00	9.31
31	Tetrahydrofuran	0.082	0.076	7.3	101	0.00	9.34
32 S	Dibromofluoromethane	0.251	0.261	-4.0	116	0.00	9.48
33	1,1,1-Tri chloroethane	0.403	0.397	1.5	113	0.00	9.59
34	Cyclohexane	0.527	0.504	4.4	107	0.00	9.68

4.6
4

Continuing Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VC1389-CC1377
 Lab FileID: C0034097.D

35	1, 1-Di chl oropropene	0.371	0.377	-1.6	115	0.00	9.74
36	Carbon Tetrchl ori de	0.352	0.360	-2.3	116	0.00	9.78
37 S	1, 2-Di chl oroethane-d4	0.337	0.330	2.1	110	0.00	9.88
38	1, 2-Di chl oroethane	0.480	0.467	2.7	110	0.00	9.96
39	Benzene	1.073	1.058	1.4	116	0.00	9.98
40	TAME	0.790	0.817	-3.4	114	0.00	9.99
41	Tri chl oroethene	0.303	0.293	3.3	115	0.00	10.63
42 C	1, 2-Di chl oropropane	0.348	0.340	2.3	113	0.00	10.87
43	Methyl cycl ohexane	0.455	0.462	-1.5	117	0.00	10.88
44	Di bromomethane	0.193	0.196	-1.6	115	0.00	11.01
45	Bromodi chl oromethane	0.431	0.440	-2.1	117	0.00	11.12
46	2-Ni trop propane	0.081	0.082	-1.2	105	0.00	11.31
47	2-Chl oroethyl vinyl ether	0.161	0.112	30.4#	72	0.00	11.34
48	ci s-1, 3-Di chl oropropene	0.489	0.507	-3.7	112	0.00	11.57
49	4-Methyl -2-pentanone	0.309	0.289	6.5	100	0.00	11.66
50 I	Chl orobenzene-d5	1.000	1.000	0.0	120	0.00	13.47
51 S	Tol uene-d8	1.301	1.240	4.7	118	0.00	11.89
		----- Amount	Cal c.	%Dri ft	-----		
52 C	Tol uene	40.000	41.430	-3.6	115	0.00	11.97
		----- AvgRF	CCRF	%Dev	-----		
53	trans-1, 3-Di chl oropropene	0.600	0.573	4.5	111	0.00	12.12
54	1, 1, 2-Tri chl oroethane	0.332	0.304	8.4	113	0.00	12.35
55	2-hexanone	0.294	0.244	17.0	90	0.00	12.52
56	1, 3-Di chl oropropane	0.620	0.572	7.7	111	0.00	12.54
		----- Amount	Cal c.	%Dri ft	-----		
57	Tetrchl oroethene	40.000	40.352	-0.9	114	0.00	12.58
		----- AvgRF	CCRF	%Dev	-----		
58	Di bromochl oromethane	0.420	0.400	4.8	115	0.00	12.83
59	1, 2-Di bromoethane	0.362	0.350	3.3	113	0.00	13.01
60	1-Chl orohexane	0.482	0.501	-3.9	117	0.00	13.36
61 P	Chl orobenzene	1.168	1.081	7.4	115	0.00	13.50
		----- Amount	Cal c.	%Dri ft	-----		
62	1, 1, 1, 2-Tetrchl oroethane	40.000	39.180	2.1	114	0.00	13.56
		----- AvgRF	CCRF	%Dev	-----		
63 C	Ethyl benzene	1.830	1.715	6.3	115	0.00	13.57
64	m, p-Xyl ene	1.406	1.327	5.6	115	0.00	13.67
65	o-Xyl ene	1.456	1.400	3.8	113	0.00	14.13
66	Styrene	1.022	1.056	-3.3	115	0.00	14.14
67 P	Bromoform	0.297	0.295	0.7	114	0.00	14.42
68 I	1, 4-Di chl orobenzene-d4	1.000	1.000	0.0	122	0.00	16.02
69	l sopropyl benzene	3.505	3.283	6.3	115	0.00	14.51
		----- Amount	Cal c.	%Dri ft	-----		
70	Cycl ohexanone	200.000	173.175	13.4	102	0.00	14.68
		----- AvgRF	CCRF	%Dev	-----		
71 S	4-Bromofl uorobenzene	1.031	0.992	3.8	120	0.00	14.72
72 P	1, 1, 2, 2-Tetrchl oroethane	1.083	0.896	17.3	111	0.00	14.80
73	trans-1, 4-Di chl oro-2-bute	0.218	0.177	18.8	94	0.00	14.85
		----- Amount	Cal c.	%Dri ft	-----		
74	1, 2, 3-Tri chl oropropane	40.000	38.216	4.5	110	0.00	14.89

Continuing Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: VC1389-CC1377
 Lab FileID: C0034097.D

75	Bromobenzene	40.000	38.789	3.0	113	0.00	14.95
	----- AvgRF	CCRF	%Dev	-----			
76	n-Propyl benzene	4.181	3.869	7.5	114	0.00	14.96
77	1, 3, 5-Tri methyl benzene	2.711	2.578	4.9	117	0.00	15.12
	----- Amount	Cal c.	%Dri ft	-----			
78	2-Chl orotol uene	40.000	38.349	4.1	113	0.00	15.12
	----- AvgRF	CCRF	%Dev	-----			
79	4-Chl orotol uene	2.655	2.416	9.0	111	0.00	15.23
80	tert-Butyl benzene	2.019	1.908	5.5	112	0.00	15.51
81	1, 2, 4-Tri methyl benzene	2.836	2.686	5.3	113	0.00	15.56
82	sec-Butyl benzene	3.640	3.433	5.7	114	0.00	15.76
83	4-Isopropyl tol uene	2.876	2.786	3.1	114	0.00	15.88
84	1, 3-Di chl orobenzene	1.790	1.571	12.2	108	0.00	15.96
	----- Amount	Cal c.	%Dri ft	-----			
85	1, 4-Di chl orobenzene	40.000	38.334	4.2	107	0.00	16.04
	----- AvgRF	CCRF	%Dev	-----			
86	Benzyl chl ori de	1.421	1.385	2.5	111	0.00	16.16
87	n-Butyl benzene	2.735	2.627	3.9	111	0.00	16.33
88	1, 2-Di chl orobenzene	1.795	1.521	15.3	105	0.00	16.48
	----- Amount	Cal c.	%Dri ft	-----			
89	1, 2-Di bromo-3-Chl oropropa	40.000	34.430	13.9	102	0.00	17.32
90	1, 2, 4-Tri chl orobenzene	40.000	33.229	16.9	105	0.00	18.32
91	Hexachl orobutadi ene	40.000	36.666	8.3	109	0.00	18.48
92	Naphthal ene	40.000	36.531	8.7	105	0.00	18.68
93	1, 2, 3-Tri chl orobenzene	40.000	33.321	16.7	101	0.00	18.99
	----- AvgRF	CCRF	%Dev	-----			
94 I	Tert Butyl al cohol -d10	1.000	1.000	0.0	123	0.00	7.46
	----- Amount	Cal c.	%Dri ft	-----			
95	Tert-Butyl al cohol	400.000	380.970	4.8	110	0.00	7.57
96	Tert Amyl Al cohol	400.000	375.536	6.1	110	0.00	9.79
97	1, 4-Di oxane	800.000	728.211	9.0	107	0.00	10.96

(#) = Out of Range
 C0033805.D 82600713.M

SPCC's out = 0 CCC's out = 0
 Mon Jul 25 15:01:10 2005

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13912-MB	F010472.D	1	07/25/05	NJ	07/25/05	OP13912	SF587

The QC reported here applies to the following samples:

Method: SW846 8270C

F33465-1, F33465-2

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	5.0	2.0	ug/l	

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	52%	19-90%
4165-62-2	Phenol-d5	34%	10-68%
118-79-6	2,4,6-Tribromophenol	76%	36-137%
4165-60-0	Nitrobenzene-d5	73%	49-119%
321-60-8	2-Fluorobiphenyl	75%	45-118%
1718-51-0	Terphenyl-d14	79%	46-135%

5.1
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Blank Spike Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13912-BS	F010471.D	1	07/25/05	NJ	07/25/05	OP13912	SF587

The QC reported here applies to the following samples:

Method: SW846 8270C

F33465-1, F33465-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	50	30.8	62	9-70

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	19-90%
4165-62-2	Phenol-d5	45%	10-68%
118-79-6	2,4,6-Tribromophenol	85%	36-137%
4165-60-0	Nitrobenzene-d5	83%	49-119%
321-60-8	2-Fluorobiphenyl	83%	45-118%
1718-51-0	Terphenyl-d14	83%	46-135%

Instrument Performance Check (DFTPP)

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample:	SF580-DFTPP	Injection Date:	07/14/05
Lab File ID:	F010288.D	Injection Time:	09:25
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	98608	38.0	Pass
68	Less than 2.0% of mass 69	0	0.0 (0.0) ^a	Pass
69	Mass 69 relative abundance	103916	40.0	Pass
70	Less than 2.0% of mass 69	624	0.24 (0.6) ^a	Pass
127	40.0 - 60.0% of mass 198	122213	47.1	Pass
197	Less than 1.0% of mass 198	202	0.08	Pass
198	Base peak, 100% relative abundance	259544	100.0	Pass
199	5.0 - 9.0% of mass 198	17139	6.6	Pass
275	10.0 - 30.0% of mass 198	54352	20.9	Pass
365	1.0 - 100.0% of mass 198	4846	1.9	Pass
441	Present, but less than mass 443	24130	9.3 (72.7) ^b	Pass
442	40.0 - 100.0% of mass 198	165544	63.8	Pass
443	17.0 - 23.0% of mass 442	33205	12.8 (20.1) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SF580-IC580	F010289.D	07/14/05	09:44	00:19	Initial cal 5
SF580-IC580	F010290.D	07/14/05	10:15	00:50	Initial cal 25
SF580-IC580	F010291.D	07/14/05	10:45	01:20	Initial cal 50
SF580-ICC580	F010292.D	07/14/05	11:15	01:50	Initial cal 75
SF580-IC580	F010293.D	07/14/05	11:46	02:21	Initial cal 100
SF580-IC580	F010294.D	07/14/05	12:17	02:52	Initial cal 125
SF580-ICV580	F010295.D	07/14/05	12:53	03:28	Initial cal verification 50
OP13806-BS	F010299.D	07/14/05	14:58	05:33	Blank Spike
OP13806-MB	F010300.D	07/14/05	15:29	06:04	Method Blank
ZZZZZZ	F010301.D	07/14/05	16:01	06:36	(unrelated sample)
F33029-1	F010302.D	07/14/05	16:32	07:07	(used for QC only; not part of job F33465)
OP13806-MS	F010303.D	07/14/05	17:03	07:38	Matrix Spike
OP13806-MSD	F010304.D	07/14/05	17:34	08:09	Matrix Spike Duplicate
ZZZZZZ	F010305.D	07/14/05	18:04	08:39	(unrelated sample)
ZZZZZZ	F010306.D	07/14/05	18:34	09:09	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample:	SF587-DFTPP	Injection Date:	07/25/05
Lab File ID:	F010469.D	Injection Time:	09:51
Instrument ID:	GCMSF		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	87883	41.7	Pass
68	Less than 2.0% of mass 69	0	0.0 (0.0) ^a	Pass
69	Mass 69 relative abundance	88408	42.0	Pass
70	Less than 2.0% of mass 69	532	0.25 (0.6) ^a	Pass
127	40.0 - 60.0% of mass 198	103664	49.2	Pass
197	Less than 1.0% of mass 198	0	0.0	Pass
198	Base peak, 100% relative abundance	210730	100.0	Pass
199	5.0 - 9.0% of mass 198	14704	7.0	Pass
275	10.0 - 30.0% of mass 198	42853	20.3	Pass
365	1.0 - 100.0% of mass 198	3563	1.7	Pass
441	Present, but less than mass 443	17786	8.4 (73.1) ^b	Pass
442	40.0 - 100.0% of mass 198	122317	58.0	Pass
443	17.0 - 23.0% of mass 442	24345	11.6 (19.9) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SF587-CC580	F010470.D	07/25/05	10:11	00:20	Continuing cal 75
OP13912-BS	F010471.D	07/25/05	10:53	01:02	Blank Spike
OP13912-MB	F010472.D	07/25/05	11:23	01:32	Method Blank
ZZZZZZ	F010473.D	07/25/05	11:52	02:01	(unrelated sample)
ZZZZZZ	F010474.D	07/25/05	12:22	02:31	(unrelated sample)
F33465-1	F010475.D	07/25/05	12:52	03:01	TT-MW-124
F33465-2	F010476.D	07/25/05	13:22	03:31	TT-MW-126

5.3
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Semivolatile Internal Standard Area Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Check Std:	SF587-CC580	Injection Date:	07/25/05
Lab File ID:	F010470.D	Injection Time:	10:11
Instrument ID:	GCMSF	Method:	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	189133	4.52	730159	5.57	430301	7.71	754374	10.16	655593	15.07	593919	17.56
Upper Limit ^a	378266	5.02	1460318	6.07	860602	8.21	1508748	10.66	1311186	15.57	1187838	18.06
Lower Limit ^b	94567	4.02	365080	5.07	215151	7.21	377187	9.66	327797	14.57	296960	17.06

Lab Sample ID	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP13912-BS	183838	4.52	691994	5.57	405278	7.72	684703	10.16	556981	15.06	486030	17.56
OP13912-MB	178386	4.52	671189	5.57	375614	7.71	655917	10.16	566785	15.06	504770	17.55
ZZZZZZ	184822	4.52	695281	5.57	386395	7.71	682955	10.16	588891	15.06	542049	17.55
ZZZZZZ	186136	4.52	711127	5.57	400154	7.71	688992	10.16	584077	15.06	517862	17.55
F33465-1	185606	4.52	690014	5.57	391081	7.71	684646	10.16	590185	15.06	532256	17.55
F33465-2	189360	4.52	686005	5.57	380168	7.71	641274	10.16	515953	15.06	459221	17.55

- IS 1 = 1,4-Dichlorobenzene-d4
- IS 2 = Naphthalene-d8
- IS 3 = Acenaphthene-D10
- IS 4 = Phenanthrene-d10
- IS 5 = Chrysene-d12
- IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
 (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

5.4
5

Semivolatile Surrogate Recovery Summary

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Method: SW846 8270C	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
F33465-1	F010475.D	63.0	66.0	77.0
F33465-2	F010476.D	69.0	72.0	75.0
OP13912-BS	F010471.D	83.0	83.0	83.0
OP13912-MB	F010472.D	73.0	75.0	79.0

Surrogate Compounds **Recovery Limits**

S1 = Nitrobenzene-d5	49-119%
S2 = 2-Fluorobiphenyl	45-118%
S3 = Terphenyl-d14	46-135%

5.5
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Initial Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICC580
 Lab FileID: F010292.D

Response Factor Report MS-F

Method : C:\MSDCHEM\1\METHODS\8270C.M (RTE Integrator)
 Title : SW846 8270C OR EPA 625
 Last Update : Thu Jul 14 13:35:24 2005
 Response via : Initial Calibration

Calibration Files

5 =F010289.D 25 =F010290.D 50 =F010291.D 75 =F010292.D
 100 =F010293.D 125 =F010294.D i cv =F010295.D

Compound	5	25	50	75	100	125	i cv	Avg	%RSD
----- STD -----									
1) I 1,4-Di chlorobenzene-d									
2) 1,4-Di oxane	0.344	0.363	0.429	0.410	0.416	0.421		0.397	8.77
3) N-ni trosodi methyl	0.550	0.559	0.640	0.657	0.642	0.652		0.617	7.86
4) Pyri di ne	1.031	0.968	1.166	1.105	1.141	1.227		1.106	8.49
5) Benzal dehyde	0.905	0.905	0.673	0.480	0.758			0.744	23.90
6) Ani li ne	1.724	1.909	1.918	1.984	1.985	2.017		1.923	5.51
7)S 2-Fl uorophenol	1.061	1.159	1.217	1.246	1.228	1.235		1.191	5.95
8) bi s(2-Chl oroethyl	0.957	1.036	1.093	1.123	1.125	1.116		1.075	6.19
9)S Phenol -d5	1.392	1.540	1.621	1.626	1.634	1.625		1.573	6.06
10)C Phenol	1.469	1.525	1.613	1.594	1.614	1.781		1.599	6.63
11) 2-Chl orophenol	1.245	1.320	1.384	1.392	1.390	1.398		1.355	4.50
12) 1,3-Di chl orobenze	1.444	1.484	1.544	1.547	1.530	1.520		1.512	2.66
13)C 1,4-Di chl orobenze	1.493	1.543	1.592	1.600	1.566	1.550		1.557	2.50
14) 1,2-Di chl orobenze	1.381	1.427	1.466	1.442	1.430	1.415		1.427	1.97
15) Benzyl al cohoh	0.705	0.809	0.888	0.897	0.889	0.910		0.850	9.34
16) bi s(2-chl oro i sopr	1.489	1.535	1.619	1.621	1.621	1.642		1.588	3.85
17) 2-Methyl phenol	1.044	1.157	1.229	1.238	1.246	1.253		1.195	6.80
18) Acetophenone	1.658	1.672	1.788	1.861	1.822	1.884		1.781	5.37
19) Hexachl oroethane	0.549	0.568	0.590	0.593	0.587	0.585		0.579	2.89
20)P N-Ni troso-di -n-pr	0.830	0.916	0.949	0.971	0.975	1.004		0.941	6.58
21) 3&4-Methyl phenol	1.140	1.242	1.292	1.328	1.321	1.348		1.278	6.02
----- STD -----									
22) I Naphthal ene-d8									
23)S Ni trobenzene-d5	0.355	0.375	0.389	0.387	0.396	0.390		0.382	3.91
24) Ni trobenzene	0.338	0.363	0.373	0.370	0.380	0.378		0.367	4.22
25) Isophorone	0.570	0.610	0.624	0.617	0.637	0.638		0.616	4.02
26)C 2-Ni trophenol	0.188	0.203	0.212	0.208	0.212	0.207		0.205	4.51
27) 2,4-Di methyl pheno	0.333	0.366	0.378	0.375	0.385	0.377		0.369	5.06
28) bi s(2-Chl oroethox	0.341	0.362	0.380	0.369	0.384	0.383		0.370	4.46
29) Benzoi c Acid		0.226	0.259	0.273	0.280	0.281		0.264	8.76
30)C 2,4-Di chl oropheno	0.278	0.316	0.326	0.312	0.320	0.313		0.311	5.40
31) 1,2,4-Tri chl orobe	0.329	0.338	0.341	0.332	0.337	0.331		0.335	1.31
32) Naphthal ene	1.000	1.067	1.094	1.077	1.106	1.077		1.070	3.48
33) 4-Chl oroani li ne	0.418	0.450	0.456	0.450	0.458	0.447		0.447	3.23
34) 2,6-Di chl oropheno	0.276	0.296	0.298	0.288	0.296	0.285		0.290	2.95
35)C Hexachl orobutadi e	0.177	0.185	0.191	0.179	0.185	0.176		0.182	3.23
36) Caprol actam	0.118	0.139	0.139	0.143	0.147	0.145		0.139	7.69
37)C 4-Chl oro-3-methyl	0.293	0.317	0.330	0.327	0.334	0.335		0.323	4.91
38) 2-Methyl naphthal e	0.663	0.709	0.731	0.711	0.729	0.712		0.709	3.44
39) 1-Methyl naphthal e	0.649	0.688	0.693	0.679	0.703	0.676		0.681	2.70
40) 1,2,4,5-Tetrachl o	0.328	0.345	0.342	0.331	0.340	0.328		0.336	2.16
----- STD -----									
41) I Acenaphthene-d10									
42)P Hexachl orocycl ope	0.120	0.216	0.303	0.322	0.326	0.337		0.271	31.67
---- Linear regr., Force(0,0) ---- Coeffi cient = 0.9978									
Response Ratio = 0.0000 + 0.32655 *A									

5.6
5

Initial Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICC580
 Lab FileID: F010292.D

43)C	2, 4, 6-Tri chl oroph	0.347	0.388	0.403	0.400	0.402	0.398	0.389	5.53
44)	2, 4, 5-Tri chl oroph	0.365	0.405	0.427	0.427	0.426	0.426	0.413	6.00
45)S	2-Fl uorobi phenyl	1.346	1.394	1.447	1.401	1.412	1.382	1.397	2.40
46)	1, 1' -Bi phenyl	1.416	1.479	1.544	1.561	1.521	1.551	1.512	3.66
47)	2-Chl oronaphthal e	1.112	1.181	1.207	1.191	1.196	1.197	1.181	2.94
48)	2-Ni troani line	0.323	0.360	0.383	0.381	0.392	0.393	0.372	7.13
49)	Acenaphthyl ene	1.853	1.975	2.038	2.028	2.031	2.020	1.991	3.56
50)	Di methyl phthal ate	1.328	1.393	1.404	1.405	1.425	1.420	1.396	2.53
51)	2, 6-Di ni trotol uen	0.299	0.325	0.335	0.328	0.335	0.332	0.326	4.22
52)C	Acenaphthene	1.119	1.205	1.235	1.205	1.217	1.206	1.198	3.36
53)	3-Ni troani line	0.315	0.357	0.368	0.362	0.370	0.371	0.357	5.97
54)P	2, 4-Di ni trophenol	0.072	0.129	0.176	0.188	0.207	0.218	0.165	33.29
---- Quadratic regr., Force(0,0) ---- Coeffi cient = 0.9990									
Response Ratio = 0.00000 + 0.13865 *A + 0.02606 *A^2									
55)	Di benzofuran	1.639	1.709	1.734	1.723	1.730	1.701	1.706	2.05
56)	2, 4-Di ni trotol uen	0.361	0.436	0.437	0.429	0.444	0.437	0.424	7.36
57)P	4-Ni trophenol	0.146	0.169	0.181	0.184	0.186	0.189	0.176	9.17
58)	2, 3, 4, 6-Tetrachl o	0.247	0.286	0.310	0.316	0.311	0.320	0.298	9.27
59)	Fl uorene	1.291	1.417	1.422	1.404	1.412	1.393	1.390	3.55
60)	4-Chl orophenyl -ph	0.627	0.661	0.664	0.658	0.659	0.654	0.654	2.09
61)	Di ethyl phthal ate	1.285	1.370	1.405	1.380	1.403	1.400	1.374	3.32
62)	4-Ni troani line	0.308	0.357	0.366	0.365	0.370	0.370	0.356	6.76
63) I	Phenanthrene-d10	----- STD-----							
64)	4, 6-Di ni tro-2-met	0.139	0.162	0.168	0.169	0.172		0.162	8.21
65)C	n-Ni trosodi phenyl	0.543	0.572	0.590	0.580	0.587	0.582	0.576	2.97
66)	1, 2-Di phenyl hydra	0.666	0.725	0.749	0.741	0.759	0.732	0.729	4.54
67)S	2, 4, 6-Tri bromophe	0.070	0.078	0.079	0.078	0.079	0.077	0.077	4.59
68)	4-Bromophenyl -phe	0.191	0.193	0.199	0.195	0.200	0.198	0.196	1.78
69)	Hexachl orobenzene	0.172	0.182	0.184	0.180	0.184	0.181	0.180	2.54
70)	Atrazi ne	0.198	0.217	0.222	0.223	0.222	0.222	0.217	4.48
71)C	Pentachl orophenol	0.057	0.078	0.082	0.086	0.089		0.079	16.19
---- Li near regr., Force(0,0) ---- Coeffi cient = 0.9997									
Response Ratio = 0.00000 + 0.08588 *A									
72)	Phenanthrene	1.135	1.168	1.186	1.154	1.172	1.154	1.161	1.50
73)	Anthracene	1.093	1.173	1.213	1.184	1.197	1.175	1.172	3.56
74)	Carbazol e	0.994	1.075	1.099	1.076	1.091	1.073	1.068	3.53
75)	Di -n-butyl phthal a	1.123	1.273	1.328	1.307	1.331	1.312	1.279	6.19
76)C	Fl uoranthene	1.083	1.166	1.193	1.165	1.174	1.157	1.156	3.28
77) I	Chrysene-d12	----- STD-----							
78)	Benzi di ne	0.967	0.940	0.891	1.002	0.958		0.952	4.29
79)	Pyrene	1.502	1.597	1.658	1.611	1.611	1.601	1.597	3.20
80)S	Terphenyl -d14	0.880	0.938	0.990	0.962	0.972	0.960	0.950	4.04
81)	Butyl benzyl phthal	0.569	0.681	0.744	0.734	0.752	0.741	0.703	10.06
82)	3, 3' -Di chl orobenz	0.428	0.495	0.504	0.470	0.495	0.485	0.479	5.83
83)	Benzo[a]anthracen	1.262	1.364	1.421	1.394	1.426	1.419	1.381	4.54
84)	Chrysene	1.260	1.309	1.349	1.303	1.309	1.292	1.304	2.20
85)	bi s(2-Ethyl hexyl)	0.756	0.912	0.996	0.996	1.008	0.993	0.944	10.41
86) I	Peryl ene-d12	----- STD-----							
87)C	Di -n-octyl phthal a	1.344	1.760	1.946	1.952	1.937	1.916	1.809	13.22
88)	Benzo[b]fl uoranth	1.289	1.436	1.475	1.500	1.512	1.575	1.464	6.65
89)	Benzo[k]fl uoranth	1.289	1.435	1.479	1.446	1.397	1.348	1.399	5.01
90)C	Benzo[a]pyrene	1.218	1.363	1.420	1.403	1.418	1.413	1.373	5.72
91)	Indeno[1, 2, 3-cd]p	0.981	1.118	1.158	1.177	1.203	1.252	1.148	8.14
92)	Di benz[a, h]anthra	0.929	1.063	1.125	1.187	1.189	1.198	1.115	9.40

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Initial Calibration Summary

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICC580
Lab FileID: F010292.D

93)	Benzo[g, h, i]peryl	1. 133	1. 260	1. 265	1. 280	1. 296	1. 317	1. 258	5. 14
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(#) = Out of Range

8270C.M

Thu Jul 14 14: 42: 39 2005

5.6
5

Initial Calibration Verification

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICV580
 Lab FileID: F010295.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\071405\F010295.D Vial : 8
 Acq On : 14 Jul 2005 12:53 pm Operator: nareshj
 Sample : icv580-50 Inst : MS-F
 Misc : op13711, sf580, 1000, , , 1, 1, water Multiplr: 1.00
 MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8270C.M (RTE Integrator)
 Title : SW846 8270C OR EPA 625
 Last Update : Thu Jul 14 13:35:24 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1 I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	90	0.00	4.58
2	1,4-Dioxane	50.000	55.696	-11.4	0	0.02	2.11
3	N-nitrosodimethylamine	50.000	45.987	8.0	0	0.01	2.43
4	Pyridine	50.000	46.323	7.4	0	0.01	2.45
5	Benzaldehyde	50.000	61.723	-23.4#	0	0.00	4.26
6	Aniline	50.000	43.142	13.7	0	0.00	4.34
7 S	2-Fluorophenol			-----NA-----			
8	bis(2-Chloroethyl)ether	50.000	55.564	-11.1	0	0.00	4.39
9 S	Phenol-d5			-----NA-----			
10 C	Phenol	50.000	50.691	-1.4	0	0.00	4.36
11	2-Chlorophenol	50.000	51.931	-3.9	0	0.00	4.43
12	1,3-Dichlorobenzene	50.000	51.302	-2.6	0	0.00	4.53
13 C	1,4-Dichlorobenzene	50.000	51.161	-2.3	0	0.00	4.59
14	1,2-Dichlorobenzene	50.000	52.181	-4.4	0	0.00	4.70
15	Benzyl alcohol	50.000	50.234	-0.5	0	0.00	4.70
16	bis(2-chloroisopropyl)eth	50.000	51.483	-3.0	0	0.00	4.79
17	2-Methylphenol	50.000	51.754	-3.5	0	0.00	4.80
18	Acetophenone	50.000	51.803	-3.6	0	0.00	4.89
19	Hexachloroethane	50.000	51.677	-3.4	0	0.00	4.96
20 P	N-Nitrosodimethylamine	50.000	51.464	-2.9	0	0.00	4.90
21	3&4-Methylphenol	100.000	102.663	-2.7	0	0.00	4.92
22 I	Naphthalene-d8	40.000	40.000	0.0	89	0.00	5.64
23 S	Nitrobenzene-d5			-----NA-----			
24	Nitrobenzene	50.000	51.266	-2.5	0	0.00	5.03
25	Isophorone	50.000	53.643	-7.3	0	0.00	5.23
26 C	2-Nitrophenol	50.000	51.967	-3.9	0	0.00	5.30
27	2,4-Dimethylphenol	50.000	51.303	-2.6	0	0.00	5.36
28	bis(2-Chloroethoxy)methan	50.000	50.217	-0.4	0	0.00	5.43
29	Benzoic Acid	100.000	110.250	-10.3	0	0.00	5.54
30 C	2,4-Dichlorophenol	50.000	52.482	-5.0	0	0.00	5.53
31	1,2,4-Trichlorobenzene	50.000	51.577	-3.2	0	0.00	5.59
32	Naphthalene	50.000	50.918	-1.8	0	0.00	5.67
33	4-Chloroaniline	50.000	27.985	44.0#	0	0.00	5.74
34	2,6-Dichlorophenol	50.000	53.387	-6.8	0	0.00	5.74
35 C	Hexachlorobutadiene	50.000	51.749	-3.5	0	0.00	5.78
36	Caprolactam	50.000	51.637	-3.3	0	0.00	6.14
37 C	4-Chloro-3-methylphenol	50.000	50.548	-1.1	0	0.00	6.29
38	2-Methylnaphthalene	50.000	49.251	1.5	0	0.00	6.41
39	1-Methylnaphthalene	50.000	50.790	-1.6	0	0.00	6.53
40	1,2,4,5-Tetrachlorobenzen	50.000	49.774	0.5	0	0.00	6.62

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Initial Calibration Verification

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICV580
 Lab FileID: F010295.D

Sample ID	Compound Name	Amount	Calc.	%Drift	90	0.00	7.81
41 I	Acenaphthene-d10	40.000	40.000	0.0	90	0.00	7.81
----- Amount Calc. %Drift -----							
42 P	Hexachlorocyclopentadiene	50.000	45.956	8.1	0	0.00	6.60
----- Amount Calc. %Drift -----							
43 C	2,4,6-Trichlorophenol	50.000	51.560	-3.1	0	0.00	6.78
44	2,4,5-Trichlorophenol	50.000	50.913	-1.8	0	0.00	6.84
45 S	2-Fluorophenyl			-----NA-----			
46	1,1'-Bi-phenyl	50.000	51.266	-2.5	0	0.00	7.01
47	2-Chloronaphthalene	50.000	50.225	-0.5	0	0.00	7.03
48	2-Nitroaniline	50.000	47.962	4.1	0	0.00	7.20
49	Acenaphthylene	50.000	50.112	-0.2	0	0.00	7.60
50	Dimethyl phthalate	50.000	52.069	-4.1	0	-0.01	7.48
51	2,6-Dinitrotoluene	50.000	49.785	0.4	0	0.00	7.56
52 C	Acenaphthene	50.000	50.520	-1.0	0	0.00	7.86
53	3-Nitroaniline	50.000	26.575	46.9#	0	0.00	7.80
----- Amount Calc. %Drift -----							
54 P	2,4-Dinitrophenol	100.000	94.826	5.2	0	0.00	7.98
----- Amount Calc. %Drift -----							
55	Dibenzofuran	50.000	48.039	3.9	0	0.00	8.13
56	2,4-Dinitrotoluene	50.000	51.372	-2.7	0	0.00	8.18
57 P	4-Nitrophenol	100.000	100.715	-0.7	0	0.00	8.18
58	2,3,4,6-Tetrachlorophenol	50.000	47.411	5.2	0	0.00	8.36
59	Fluorene	50.000	50.437	-0.9	0	0.00	8.68
60	4-Chlorophenyl-phenylether	50.000	52.684	-5.4	0	0.00	8.72
61	Diethyl phthalate	50.000	52.195	-4.4	0	0.00	8.60
62	4-Nitroaniline	50.000	43.973	12.1	0	0.00	8.80
----- Amount Calc. %Drift -----							
63 I	Phenanthrene-d10	40.000	40.000	0.0	90	0.00	10.28
64	4,6-Dinitro-2-methylphenol	100.000	108.701	-8.7	0	0.00	8.85
65 C	n-Nitrosodiphenylamine	50.000	51.509	-3.0	0	0.00	8.94
66	1,2-Diphenylhydrazine	50.000	52.620	-5.2	0	0.00	8.99
67 S	2,4,6-Tribromophenol			-----NA-----			
68	4-Bromophenyl-phenylether	50.000	52.003	-4.0	0	0.00	9.54
69	Hexachlorobenzene	50.000	51.441	-2.9	0	0.00	9.59
70	Atrazine	50.000	52.269	-4.5	0	0.00	9.96
----- Amount Calc. %Drift -----							
71 C	Pentachlorophenol	100.000	102.061	-2.1	0	0.00	9.99
----- Amount Calc. %Drift -----							
72	Phenanthrene	50.000	51.386	-2.8	0	0.00	10.32
73	Anthracene	50.000	49.569	0.9	0	0.00	10.41
74	Carbazole	50.000	47.366	5.3	0	0.00	10.76
75	Di-n-butyl phthalate	50.000	51.853	-3.7	0	0.00	11.55
76 C	Fluoranthene	50.000	52.062	-4.1	0	0.00	12.48
----- Amount Calc. %Drift -----							
77 I	Chrysene-d12	40.000	40.000	0.0	88	0.00	15.19
78	Benzo[a]pyrene			-----NA-----			
79	Pyrene	50.000	52.071	-4.1	0	0.00	12.88
80 S	Terphenyl-d14			-----NA-----			
81	Butyl benzyl phthalate	50.000	53.149	-6.3	0	0.00	14.35
82	3,3'-Dichlorobenzidine	50.000	1.596	96.8#	0	0.00	15.22
83	Benzo[a]anthracene	50.000	51.606	-3.2	0	0.00	15.16
84	Chrysene	50.000	53.016	-6.0	0	0.00	15.23
85	bis(2-Ethylhexyl)phthalate	50.000	54.316	-8.6	0	0.00	15.54

5.6
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Initial Calibration Verification

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF580-ICV580
Lab FileID: F010295.D

86	I	Perylene-d12	40.000	40.000	0.0	87	0.00	17.68
87	C	Di-n-octyl phthalate	50.000	56.471	-12.9	0	0.00	16.73
88		Benzo[b]fluoranthene	50.000	51.057	-2.1	0	0.00	17.07
89		Benzo[k]fluoranthene	50.000	53.773	-7.5	0	0.00	17.12
90	C	Benzo[a]pyrene	50.000	49.758	0.5	0	0.00	17.58
91		Indeno[1,2,3-cd]pyrene	50.000	52.753	-5.5	0	0.00	19.26
92		Di benz[a,h]anthracene	50.000	50.257	-0.5	0	0.00	19.32
93		Benzo[g,h,i]perylene	50.000	50.746	-1.5	0	0.00	19.61

(#) = Out of Range
F010295.D 8270C.M

SPCC's out = 0 CCC's out = 0
Thu Jul 14 14:44:55 2005

5.6
5

Continuing Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: SF587-CC580
 Lab FileID: F010470.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\072505\F010470.D Vial : 2
 Acq On : 25 Jul 2005 10:11 am Operator: nareshj
 Sample : cc580-75 Inst : MS-F
 Misc : op13884, sf587, 30.8, , , 1, 1, soi l Multiplr: 1.00
 MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8270C.M (RTE Integrator)
 Title : SW846 8270C OR EPA 625
 Last Update : Wed Jul 20 12:46:04 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(mi n)	R. T.
1 I	1, 4-Di chl orobenzene-d4	1.000	1.000	0.0	67	-0.02	4.52
2	1, 4-Di oxane	0.397	0.413	-4.0	67	-0.08	1.99
3	N-ni trosodi methyl ami ne	0.617	0.677	-9.7	69	-0.07	2.33
4	Pyri di ne	1.106	1.210	-9.4	73	-0.06	2.36
5	Benzal dehyde	0.744	0.938	-26.1#	130	-0.03	4.20
6	Ani li ne	1.923	2.145	-11.5	72	-0.03	4.29
7 S	2-Fl uorophenol	1.191	1.264	-6.1	68	-0.04	3.55
8	bi s(2-Chl oroethyl)ether	1.075	1.136	-5.7	67	-0.03	4.34
9 S	Phenol -d5	1.573	1.725	-9.7	71	-0.05	4.30
10 C	Phenol	1.599	1.694	-5.9	71	-0.03	4.30
11	2-Chl orophenol	1.355	1.464	-8.0	70	-0.02	4.38
12	1, 3-Di chl orobenzene	1.512	1.585	-4.8	68	-0.02	4.48
13 C	1, 4-Di chl orobenzene	1.557	1.648	-5.8	69	-0.03	4.53
14	1, 2-Di chl orobenzene	1.427	1.522	-6.7	70	-0.02	4.64
15	Benzyl al coh ol	0.850	0.944	-11.1	70	-0.03	4.64
16	bi s(2-chl oroi sopropyl)eth	1.588	1.735	-9.3	71	-0.02	4.73
17	2-Methyl phenol	1.195	1.344	-12.5	72	-0.03	4.73
18	Acetophenone	1.781	1.951	-9.5	70	-0.02	4.84
19	Hexachl oroethane	0.579	0.609	-5.2	68	-0.03	4.90
20 P	N-Ni troso-di -n-propyl ami n	0.941	1.054	-12.0	72	-0.03	4.84
21	3&4-Methyl phenol	1.278	1.408	-10.2	71	-0.03	4.86
22 I	Naphthal ene-d8	1.000	1.000	0.0	67	-0.03	5.57
23 S	Ni trobenzene-d5	0.382	0.403	-5.5	70	-0.01	4.95
24	Ni trobenzene	0.367	0.387	-5.4	70	-0.03	4.97
25	I sophorone	0.616	0.673	-9.3	73	-0.03	5.17
26 C	2-Ni trophenol	0.205	0.218	-6.3	70	-0.03	5.23
27	2, 4-Di methyl phenol	0.369	0.399	-8.1	72	-0.03	5.29
28	bi s(2-Chl oroethoxy)methan	0.370	0.392	-5.9	71	-0.02	5.36
29	Benzoi c Aci d	0.264	0.303	-14.8	75	-0.05	5.44
30 C	2, 4-Di chl orophenol	0.311	0.333	-7.1	72	-0.03	5.46
31	1, 2, 4-Tri chl orobenzene	0.335	0.344	-2.7	69	-0.03	5.52
32	Naphthal ene	1.070	1.128	-5.4	70	-0.03	5.59
33	4-Chl oroani li ne	0.447	0.487	-8.9	73	-0.03	5.66
34	2, 6-Di chl orophenol	0.290	0.311	-7.2	72	-0.03	5.67
35 C	Hexachl orobutadi ene	0.182	0.192	-5.5	72	-0.03	5.71
36	Caprol actam	0.139	0.168	-20.9#	79	-0.05	6.05
37 C	4-Chl oro-3-methyl phenol	0.323	0.355	-9.9	73	-0.04	6.20
38	2-Methyl naphthal ene	0.709	0.765	-7.9	72	-0.03	6.33
39	1-Methyl naphthal ene	0.681	0.729	-7.0	72	-0.04	6.44
40	1, 2, 4, 5-Tetrachl orobenzen	0.336	0.350	-4.2	71	-0.04	6.53

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Continuing Calibration Summary

Job Number: F33465
 Account: TETFLTAM Tetra Tech NUS
 Project: Former American Beryllium, Sarasota, FL

Sample: SF587-CC580
 Lab FileID: F010470.D

41	I	Acenaphthene-d10	1.000	1.000	0.0	71	-0.04	7.71
			Amount	Cal c.	%Dri ft			
42	P	Hexachl orocycl opentadi ene	75.000	67.646	9.8	65	-0.03	6.51
			AvgRF	CCRF	%Dev			
43	C	2, 4, 6-Tri chl orophenol	0.389	0.404	-3.9	72	-0.04	6.69
44		2, 4, 5-Tri chl orophenol	0.413	0.420	-1.7	70	-0.04	6.75
45	S	2-Fl uorobi phenyl	1.397	1.455	-4.2	74	-0.04	6.80
46		1, 1' -Bi phenyl	1.512	1.554	-2.8	70	-0.04	6.92
47		2-Chl oronaphthal ene	1.181	1.218	-3.1	72	-0.04	6.93
48		2-Ni troani line	0.372	0.410	-10.2	76	-0.04	7.11
49		Acenaphthyl ene	1.991	2.099	-5.4	73	-0.04	7.51
50		Di methyl phthal ate	1.396	1.486	-6.4	75	-0.03	7.40
51		2, 6-Di ni trotol uene	0.326	0.346	-6.1	75	-0.04	7.47
52	C	Acenaphthene	1.198	1.268	-5.8	74	-0.04	7.77
53		3-Ni troani line	0.357	0.397	-11.2	78	-0.04	7.71
			Amount	Cal c.	%Dri ft			
54	P	2, 4-Di ni trophenol	75.000	82.036	-9.4	79	-0.04	7.89
			AvgRF	CCRF	%Dev			
55		Di benzofuran	1.706	1.786	-4.7	73	-0.04	8.04
56		2, 4-Di ni trotol uene	0.424	0.471	-11.1	78	-0.04	8.09
57	P	4-Ni trophenol	0.176	0.202	-14.8	78	-0.05	8.07
58		2, 3, 4, 6-Tetrachl orophenol	0.298	0.328	-10.1	73	-0.04	8.26
59		Fl uorene	1.390	1.484	-6.8	75	-0.04	8.58
60		4-Chl orophenyl -phenyl ethe	0.654	0.687	-5.0	74	-0.04	8.62
61		Di ethyl phthal ate	1.374	1.489	-8.4	76	-0.04	8.51
62		4-Ni troani line	0.356	0.412	-15.7	80	-0.04	8.70
63	I	Phenanthrene-d10	1.000	1.000	0.0	74	-0.05	10.16
64		4, 6-Di ni tro-2-methyl pheno	0.162	0.174	-7.4	76	-0.04	8.75
65	C	n-Ni trosodi phenyl ami ne	0.576	0.601	-4.3	76	-0.04	8.84
66		1, 2-Di phenyl hydrazi ne	0.729	0.777	-6.6	77	-0.05	8.88
67	S	2, 4, 6-Tri bromophenol	0.077	0.079	-2.6	75	-0.05	8.99
68		4-Bromophenyl -phenyl ether	0.196	0.198	-1.0	75	-0.04	9.44
69		Hexachl orobenzene	0.180	0.186	-3.3	76	-0.04	9.49
70		Atrazi ne	0.217	0.241	-11.1	79	-0.05	9.84
			Amount	Cal c.	%Dri ft			
71	C	Pentachl orophenol	75.000	82.592	-10.1	84	-0.04	9.88
			AvgRF	CCRF	%Dev			
72		Phenanthrene	1.161	1.217	-4.8	78	-0.04	10.21
73		Anthracene	1.172	1.258	-7.3	78	-0.04	10.30
74		Carbazol e	1.068	1.171	-9.6	80	-0.04	10.65
75		Di -n-butyl phthal ate	1.279	1.421	-11.1	80	-0.03	11.45
76	C	Fl uoranthene	1.156	1.278	-10.6	81	-0.03	12.37
77	I	Chrysene-d12	1.000	1.000	0.0	83	-0.05	15.07
78		Benzi di ne	0.952	1.081	-13.6	101	-0.05	12.74
79		Pyrene	1.597	1.588	0.6	82	-0.05	12.77
80	S	Terphenyl -d14	0.950	0.933	1.8	80	-0.05	13.20
81		Butyl benzyl phthal ate	0.703	0.762	-8.4	86	-0.04	14.25
82		3, 3' -Di chl orobenzi di ne	0.479	0.538	-12.3	95	-0.04	15.12
83		Benzo[a]anthracene	1.381	1.462	-5.9	87	-0.04	15.06
84		Chrysene	1.304	1.384	-6.1	88	-0.05	15.12
85		bi s(2-Ethyl hexyl)phthal at	0.944	1.056	-11.9	88	-0.03	15.44

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Continuing Calibration Summary

Job Number: F33465
Account: TETFLTAM Tetra Tech NUS
Project: Former American Beryllium, Sarasota, FL

Sample: SF587-CC580
Lab FileID: F010470.D

86 I	Perylene-d12	1.000	1.000	0.0	88	-0.06	17.56
87 C	Di-n-octyl phthalate	1.809	2.050	-13.3	92	-0.04	16.64
88	Benzo[b]fluoranthene	1.464	1.494	-2.0	88	-0.05	16.96
89	Benzo[k]fluoranthene	1.399	1.542	-10.2	94	-0.06	17.01
90 C	Benzo[a]pyrene	1.373	1.476	-7.5	93	-0.05	17.48
91	Indeno[1,2,3-cd]pyrene	1.148	1.222	-6.4	91	-0.05	19.15
92	Di-benz[a,h]anthracene	1.115	1.178	-5.7	87	-0.05	19.20
93	Benzo[g,h,i]perylene	1.258	1.376	-9.4	94	-0.05	19.49

(#) = Out of Range
F010292.D 8270C.M

SPCC's out = 0 CCC's out = 0
Mon Jul 25 13:38:05 2005