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MEMORANDUM

TO: Lisa Hanusiak. Remedial Project Manager
Site Cleanup Section 3, SFD-7-3

THROUGH: Rose Fong, ESAT Task Order Project Officer
Quality Assurance (QA) Program, PMD-3

FROM: Doug Lindelof, Data Review and QA Document Review Task Manager
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order: 009
Technical Direction No.: 00905015

DATE: January 25, 2005

SUBJECT: Review of Analytical Data, Tier 3

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

SITE:	Alhambra
SITE ACCOUNT NO.:	09 ES LA01
CERCLIS ID NO.:	CAD980818579
CASE NO.:	33529
SDG NO.:	Y1JB6
LABORATORY:	CompuChem (LIBRTY)
ANALYSIS:	Volatiles
SAMPLES:	15 Groundwater Samples
COLLECTION DATE:	November 9 and 10, 2004
REVIEWER:	Nanny Estrada, ESAT/Laboratory Data Consultants (LDC)

This report has been reviewed by the EPA Task Order Project Officer (TOPO) for the ESAT Contract, whose signature appears above.

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

Attachment

cc: Edward Messer, CLP PO USEPA Region 4
Steve Remaley, CLP PO USEPA Region 9

CLP PO: [ ] FYI [X] Attention [X] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report

Case No.: 33529 SDG No.: Y1JB6
Site: Alhambra
Laboratory: CompuChem (LIBRTY)
Reviewer: Nanny Estrada, ESAT/LDC
Date: January 25, 2005

I. Case Summary

SAMPLE INFORMATION:

Samples:	Y1JB6, Y1JC5 through Y1JC9, and Y1JD0 through Y1JD8
Concentration and Matrix:	Low Concentration Water
Analysis:	Volatiles
SOW:	OLC03.2 - Modification Reference No. 1125.0
Collection Date:	November 9 and 10, 2004
Sample Receipt Date:	November 10 and 11, 2004
Extraction Date:	Not Applicable
Analysis Date:	November 12 and 18, 2004

FIELD QC:

Trip Blanks (TB):	Not provided
Field Blanks (FB):	Not provided
Equipment Blanks (EB):	Y1JD2 and Y1JD7
Background Samples (BG):	Not provided
Field Duplicates (D1):	Y1JD0 and Y1JD1

METHOD BLANKS AND ASSOCIATED SAMPLES:

VBLKPT:	Y1JB6, Y1JC5 through Y1JC9, Y1JD0, Y1JD2, Y1JD5, Y1JD7, and Y1JD8
VBLKPU:	Y1JD1, Y1JD3, Y1JD4, Y1JD6, Y1JB6DL, Y1JD5DL, and Y1JD8DL
VBLKSD:	Storage Blank VHBLKY1

TABLES:

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review
2:	Calibration Summary

CLP PO ACTION:

Nondetected results for tert-butyl alcohol in samples Y1JD1, Y1JD3, Y1JD4, and Y1JD6 are qualified as rejected (R) due to very low response factors (<0.01) in the continuing calibration.

CLP PO ATTENTION:

1) Detected results for acetone, styrene, cis-1,3-dichloropropene, bromoform, 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene, methylene chloride, 2-butanone, and toluene are qualified as nondetected and estimated (U,J) in some samples due to method blank and/or equipment blank contamination.

2) Results are qualified as estimated (J) for some analytes due to calibration problems.

3) Result are qualified as estimated (J) for some analytes due to deuterated monitoring compound (DMC) recovery problems.

ATHD W031

SAMPLING ISSUES:

1) Detected results for methylene chloride, 2-butanone, and toluene are qualified as nondetected and estimated (U,J) in some samples due to equipment blank contamination.

2) Sample Y1JD8 was designated for "laboratory QC" on the TR/COCs. Region 9 does not require matrix spike/matrix spike duplicate (MS/MSD) for volatile analysis by OLC03.2.

ADDITIONAL COMMENTS:

Other than laboratory artifacts (approximate retention times of 3.0, 4.2, 6.4, 7.6, 10.6, 11.8, and 12.1 minutes), tentatively identified compounds (TICs) were found in samples Y1JC7, Y1JD4, Y1JD5, Y1JD6, and Y1JD8 (see attached Form 1LCFs and Alkane Narrative Report).

Manual integrations were performed on calibration standards and samples due to incorrect auto integration. Manual integrations were reviewed and found to be satisfactory and in compliance with proper integration techniques.

Standard preparation logs are missing in the data package and cannot be evaluated. This information was requested from the laboratory but has not been received to date. Data are not qualified in this report due to missing standard preparation logs. Refer to the attached telephone record log for details.

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;
- *USEPA Contract Laboratory Program Statement of Work for Analysis of Low Concentration Organic,* OLC03.2, December 2000; and
- *USEPA Contract Laboratory Program National Functional Guidelines for Low Concentration Organic Data Review,* June 2001.

II. Validation Summary

	Acceptable/Comment	
HOLDING TIMES/PRESERVATION	YES	
GC/MS TUNE/GC PERFORMANCE	YES	
INITIAL CALIBRATIONS	NO	D, E
CONTINUING CALIBRATIONS	NO	A, D, F
LABORATORY BLANKS	NO	C
FIELD BLANKS	NO	C
DEUTERATED MONITORING COMPOUNDS	NO	G
MATRIX SPIKE/DUPLICATES	N/A	
LABORATORY CONTROL SAMPLE/DUPLICATES	N/A	
INTERNAL STANDARDS	YES	
COMPOUND IDENTIFICATION	YES	
COMPOUND QUANTITATION	YES	B, H
SYSTEM PERFORMANCE	YES	
FIELD DUPLICATE SAMPLE ANALYSIS	N/A	

N/A = Not Applicable

III. Validity and Comments

A. Nondetected results for the following analyte are qualified as rejected due to a very low relative response factor (RRF) in the continuing calibration and are flagged "R" in Table 1A.

- tert-Butyl alcohol in samples Y1JD1, Y1JD3, Y1JD4, and Y1JD6 and method blank VBLKPU

An RRF below the 0.01 was observed for tert-butyl alcohol in the continuing calibration performed on November 12, 2004 (see Table 2). This value is well below the 0.05 validation criterion. Since results are nondetected, false negatives may exist.

The RRF evaluates instrument sensitivity and is used in the quantitation of target analytes.

B. The following results, denoted with an "L" qualifier, are estimated and flagged "J" in Table 1A.

- All detected results below the contract required quantitation limits

Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.

C. The following results are qualified as nondetected and estimated due to method blank and equipment blank contamination and are flagged "U,J" in Table 1A.

- cis-1,3-Dichloropropene in all samples except Y1JC9 and in storage blank VHBLKYI
- Styrene in sample Y1JC5
- Bromoform in samples Y1JB6, Y1JC5, Y1JC6, Y1JC7, Y1JC8, Y1JC9, Y1JD0, Y1JD1, Y1JD2, Y1JD4, Y1JD5, Y1JD6, Y1JD7, and Y1JD8 and storage blank VHBLKYI
- 1,2,4-Trichlorobenzene and 1,2,3-trichlorobenzene in samples Y1JB6 and Y1JD3
- Acetone in samples Y1JD1 and Y1JD6 and storage blank VHBLKYI
- Methylene chloride in samples Y1JC5, Y1JC6, Y1JC7, Y1JC9, Y1JD0, and Y1JD1
- 2-Butanone in samples Y1JC5 and Y1JD0
- Chloromethane in sample Y1JD8
- Toluene in samples Y1JB6, Y1JD4, Y1JD6, and Y1JD8

cis-1,3-Dichloropropene, bromoform, and 1,2,4-trichlorobenzene were found in method blanks VBLKPT, VBLKPU, and VBLKSD (see Table 1A for concentrations). 1,2,3-Trichlorobenzene was found in method blanks VBLKPT and VBLKPU (see Table 1A for concentrations). Styrene was found in method blank VBLKPT (see Table 1A for concentrations). Acetone was found in method blanks VBLKPU and VBLKSD (see Table 1A for concentrations). Methylene chloride and 2-butanone were found in equipment blank Y1JD2 (see Table 1A for concentrations). Chloromethane was found in equipment blank Y1JD7 (see Table 1A for concentrations). Toluene was found in equipment blanks Y1JD2 and Y1JD7 (see Table 1A for concentrations). Results for the samples listed above are

considered nondetected and estimated (U,J) and the quantitation limits have been raised according to the blank qualification rules presented below.

No positive results are reported unless the concentration of the compound in the sample exceeds 10 times the amount in any associated blank for the common laboratory contaminants or 5 times the amount for other compounds. If the sample result is greater than the CRQL, the quantitation limit is raised to the sample result and reported as nondetected. If the sample result is less than the CRQL, the result is reported as nondetected at the CRQL.

The following analytes are not qualified as nondetected and estimated because they are not detected in the associated method blank or equipment blank: (1) chloromethane in samples Y1JC5 (0.12 µg/L), Y1JC8 (0.10 µg/L), Y1JD0 (0.11 µg/L), and Y1JD1 (0.13 µg/L); (2) 1,1-dichloroethene in sample Y1JD0 (0.19 µg/L); methylene chloride in samples Y1JB6 (0.11 µg/L), Y1JD3 (0.11 µg/L), Y1JD4 (0.12 µg/L), Y1JD5 (0.11 µg/L), and Y1JD8 (0.13 µg/L); and (3) 2-butanone in sample Y1JD6 (1.1 µg/L) and Y1JD8 (1.3 µg/L). The users should note that these analytes may be artifacts because they were found in other method blanks or equipment blank.

A laboratory method blank is laboratory reagent water analyzed with all reagents, deuterated monitoring compounds, and internal standards and carried through the sample preparation and analytical procedures as the field samples. The laboratory method blank is used to determine the level of contamination introduced by the laboratory during analysis.

An equipment blank is clean water that has been collected as a sample using decontaminated sampling equipment. The intent of an equipment blank is to monitor for contamination introduced by the sampling activity, although any laboratory introduced contamination will also be present.

D. Results for the following analytes are qualified as estimated due to low relative response factors (RRFs) in the initial and continuing calibrations and are flagged "J" in Table 1A.

- tert-Butyl alcohol in samples Y1JB6, Y1JC5 through Y1JC9, Y1JD0, Y1JD2, Y1JD5, Y1JD7, and Y1JD8; method blanks VBLKPT and VBLKSD; and storage blank VHBLKYI
- Acetone and 2-butanone in samples Y1JD1, Y1JD3, Y1JD4, and Y1JD6 and method blankVBLKPU

Average RRFs below the 0.05 validation criterion were observed for tert-Butyl alcohol in the initial calibration performed on November 11, 2004 and in the continuing calibration performed on November 18, 2004 (see Table 2). RRFs below the 0.05 validation criterion were observed for acetone and 2-butanone in the continuing calibration performed on November 12, 2004 (see Table 2). Since results are nondetected, false negatives may exist.

E. Results for the following analytes are qualified as estimated due to large percent relative standard deviations (RSDs) in the initial calibration and are flagged "J" in Table 1A.

- Bromomethane in all samples, all method blanks, and storage blank VHBLKYI
- Methyl acetate in all samples and method blanks VBLKPT and VBLKPU
- 1,2-Dibromo-3-chloropropane in method blank VBLKSD and storage blank VHBLKYI

Percent RSDs of 35.3% and 34.6% were observed for bromomethane and methyl acetate, respectively, in the initial calibration performed on November 11, 2004. A percent RSD of 34.5% was observed for bromomethane in the initial calibration performed on November 15, 2004. These values exceed the ≤30.0% validation criterion

The initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of the analytical sequence and of producing a linear calibration curve.

F. Results for the following analytes are qualified as estimated due to large percent differences (%Ds) in the continuing calibrations and are flagged "J" in Table 1A.

- Chloromethane, bromomethane, acetone, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, and tert-butyl alcohol in samples Y1JD1, Y1JD3, Y1JD4, and Y1JD6 and method blank VBLKPU

%Ds of +39.3%, -30.4%, -49.2%, -50.6%, -52.1%, -52.6%, and -40.0% were observed for chloromethane, bromoethane, acetone, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, and tert-butyl alcohol, respectively, in the continuing calibrations performed on November 12, 2004. These values exceed the ±30.0% validation criterion.

It should be noted that results for tert-butyl alcohol in samples Y1JD1, Y1JD3, Y1JD4, and Y1JD6 and method blank VBLKPU were previously qualified as rejected. Please refer to Comment A.

The DMC vinyl chloride-d3 (+31.0%) also had a %D that exceeded the ±30.0% validation criterion in the continuing calibration performed on November 12, 2004. Quantitation of the analytes associated with this DMC may have been affected by the high %D (see attached Table 9 from the Functional Guidelines).

The continuing calibration checks the instrument performance daily and produces the relative response factors (RRFs) for target analytes that are used for quantitation.

G. Results for the following analytes are qualified as estimated due to DMC recoveries outside QC limits and are flagged "J" in Table 1A.

{Chloroethane-d5}
- Chloromethane in samples Y1JC8 and Y1JD0
- Dichlorodifluromethane in sample Y1JD8

{2-Butanone-d5}
- Acetone and 2-butanone in sampleY1JC6

{Chloroform-d}
- 1,1-Dichloroethane, bromochloromethane, and chloroform in sample Y1JC6

{1,1,2,2-Tetrachloroethane-d2}
- 1,1,2,2-Tetrachloroethane and 1,2-dibromo-3-chloropropane in sample Y1JD1

DMC recoveries outside QC limits are shown below.

Sample	DMC	% Recovery	QC Limits
Y1JC8	Chloroethane-d5	134	60-126
Y1JD0	Chloroethane-d5	134	60-126
Y1JD2	Chloroethane-d5	132	60-126
Y1JD5	Chloroethane-d5	130	60-126
Y1JD8	Chloroethane-d5	132	60-126

Y1JD7	trans-1,3-Dichloropropene-d4	138	80-128
Y1JC6	2-Butanone-d5	22	42-171
Y1JC9	Benzene-d6	122	78-121
Y1JD0	Benzene-d6	122	78-121
Y1JD2	Benzene-d6	128	78-121
Y1JC6	Chloroform-d	38	80-123
Y1JD1	1,1,2,2-Tetrachloroethane-d2	74	75-131

Detected results for affected analytes where DMC recoveries fell below QC limits may be biased low; where results are nondetected, false negatives may exist. Detected results for affected analytes where DMC recoveries exceeded QC limits may be biased high. For DMC recoveries that exceeded QC limits, only detected results for associated analytes are qualified. The samples were not reanalyzed.

Surrogates (e.g., deuterated monitoring compounds (DMCs)) are organic compounds which are similar to the target analytes in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. All samples are spiked with DMCs prior to purging. DMCs provide information about both the laboratory performance on individual samples and the possible effects of the sample matrix on the analytical results.

H. Samples Y1JB6, Y1JD5, and Y1JD8 were reanalyzed at 16.7-fold, 4.2-fold, and 16.7-fold dilutions, respectively, due to high levels of trichloroethene that exceeded the calibration range. Results for trichloroethene are reported from the diluted samples in Table 1A; results for all other analytes are reported from the undiluted samples.

ANALYTICAL RESULTS
Tier 3 Table 1A

Case No.: 33529 SDG No.: Y1JB6
Site: ALHAMBRA
Lab: LIBERTY ANALYTICAL CORPORATION
Reviewer: Nanny Estrada, ESAT/LDC
Date: January 25, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples
For Volatiles

Station Location:	1			10			11			12			13			14			15		
Sample ID:	Y1JB6			Y1JC5			Y1JC6			Y1JC7			Y1JC8			Y1JC9			Y1JD0		D1
Collection Date:	11/9/2004			11/10/2004			11/10/2004			11/10/2004			11/10/2004			11/10/2004			11/10/2004		
Dilution Factor:	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	0.15L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloromethane	0.50U			0.12L	J	B	0.50U			0.50U			0.10L	J	BG	0.50U			0.11L	J	BG
Vinyl Chloride	0.50U			0.50U			0.50U			0.50U			0.10L	J	B	0.50U			0.50U		
Bromomethane	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethene	3.3			0.50U			0.50U			0.50U			0.50U			0.50U			0.19L	J	B
1,1,2-Trichloro-1,2,2-trifluoroethane	0.12L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Acetone	5.0U			5.0U			5.0U	J	G	5.0U			5.0U			5.0U			5.0U		
Carbon Disulfide	0.50U			0.82			0.63			0.12L	J	B	0.50U			0.18L	J	B	0.50U		
Methyl Acetate	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
Methylene Chloride	0.11L	J	B	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U			0.50U	J	C	0.50U	J	C
trans-1,2-Dichloroethene	0.26L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl tert-Butyl Ether	0.35L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	0.36L	J	B	0.50U			0.50U	J	G	0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	4.7			0.50U			0.50U			0.50U			0.50U			0.50U			0.11L	J	B
2-Butanone	5.0U			5.0U	J	C	5.0U	J	G	5.0U			5.0U			5.0U			5.0U	J	C
Bromochloromethane	0.50U			0.50U			0.50U	J	G	0.50U			0.50U			0.50U			0.50U		
Chloroform	0.89			0.50U			0.50U	J	G	0.50U			0.50U			0.12L	J	B	0.21L	J	B
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon Tetrachloride	1.4			0.50U			0.50U			0.50U			0.50U			0.50U			0.10L	J	B
Benzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	0.91			0.12L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U		
Trichloroethene	220		H	0.37L	J	B	0.11L	J	B	0.25L	J	B	0.50U			1.5			3.5		
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U			0.50U	J	C
4-Methyl-2-pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	0.50U	J	C	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.26L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	9.3			0.20L	J	B	0.12L	J	B	0.75			0.55			16			3.6		
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		

ANALYTICAL RESULTS
Tier 3 Table 1A

Case No. : 33529 SDG No. : Y1JB6
Site : ALHAMBRA
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Nanny Estrada, ESAT/LDC
Date : January 25, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples
For Volatiles

Station Location :	1			10			11			12			13			14			15		
Sample ID :	Y1JB6			Y1JC5			Y1JC6			Y1JC7			Y1JC8			Y1JC9			Y1JD0 D1		
Collection Date :	11/9/2004			11/10/2004			11/10/2004			11/10/2004			11/10/2004			11/10/2004			11/10/2004		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Xylenes (total)	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U	J	C	0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,4-Trichlorobenzene	0.50U	J	C	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	0.50U	J	C	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
tert-Butyl Alcohol	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 3 Table 1A

Case No. 33529 SDG No. : Y1JB6
Site ALHAMBRA
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Nanny Estrada, ESAT/LDC
Date January 25, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	16			17			18			19			20			21			22		
Sample ID :	Y1JD1		D1	Y1JD2		EB	Y1JD3			Y1JD4			Y1JD5			Y1JD6			Y1JD7		EB
Collection Date :	11/10/2004			11/10/2004			11/9/2004			11/9/2004			11/9/2004			11/9/2004			11/9/2004		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloromethane	0.13L	J	BF	0.50U			0.50U	J	F	0.50U	J	F	0.50U			1.0	J	F	0.19L	J	B
Vinyl Chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromomethane	0.50U	J	EF	0.50U	J	E	0.50U	J	EF	0.50U	J	EF	0.50U	J	E	1.4	J	EF	0.50U	J	E
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.95			0.50U			0.10L	J	B
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Acetone	5.0U	J	CDF	5.0U			5.0U	J	DF	5.0U	J	DF	5.0U			5.0U	J	CDF	5.0U		
Carbon Disulfide	0.10L	J	B	0.50U			0.19L	J	B	0.19L	J	B	0.50U			0.15L	J	B	0.50U		
Methyl Acetate	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
Methylene Chloride	0.50U	J	C	0.11L	J	B	0.11L	J	B	0.12L	J	B	0.11L	J	B	0.50U			0.50U		
trans-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.27L	J	B	0.50U			0.50U		
Methyl tert-Butyl Ether	0.50U			0.50U			0.50U			0.50U			0.34L	J	B	0.50U			0.50U		
1,1-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	0.50U			0.50U			0.26L	J	B	0.63			9.4			0.29L	J	B	0.50U		
2-Butanone	5.0U	J	DF	1.8L	J	B	5.0U	J	DF	5.0U	J	DF	5.0U			1.1L	J	BDF	5.0U		
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	0.17L	J	B	0.50U			0.50U			0.50U			0.36L	J	B	0.50U			0.50U		
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon Tetrachloride	0.50U			0.50U			0.50U			0.50U			0.30J			0.50U			0.50U		
Benzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.13L	J	B	0.50U		
1,2-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.16L	J	B	0.50U			0.50U		
Trichloroethene	2.9			0.50U			1.9			1.8			50		H	2.3			0.50U		
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C
4-Methyl-2-pentanone	5.0U	J	F	5.0U			5.0U	J	F	5.0U	J	F	5.0U			5.0U	J	F	5.0U		
Toluene	0.50U			0.12L	J	B	0.50U			0.50U	J	C	0.50U			0.50U	J	C	0.11L	J	B
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.17L	J	B	0.50U			0.50U		
Tetrachloroethene	3.1			0.50U			0.50U			0.50U			1.2			0.50U			0.50U		
2-Hexanone	5.0U	J	F	5.0U			5.0U	J	F	5.0U	J	F	5.0U			5.0U	J	F	5.0U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		

ANALYTICAL RESULTS
Tier 3 Table 1A

Case No. : 33529 SDG No. : Y1JB6
Site : ALHAMBRA
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Nanny Estrada, ESAT/LDC
Date : January 25, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples
For Volatiles

Station Location :	16			17			18			19			20			21			22		
Sample ID :	Y1JD1	D1		Y1JD2	EB		Y1JD3			Y1JD4			Y1JD5			Y1JD6			Y1JD7	EB	
Collection Date :	11/10/2004			11/10/2004			11/9/2004			11/9/2004			11/9/2004			11/9/2004			11/9/2004		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Xylenes (total)	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U			0.50U			0.14J			0.50U			0.50U			0.50U		
Bromoform	0.50U	J	C	0.50U	J	C	0.50U			0.50U	J	C	0.50U	J	C	0.50U	J	C	0.50U	J	C
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	0.50U	J	G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U	J	G	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U	J	C	0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U	J	C	0.50U			0.50U			0.50U			0.50U		
tert-Butyl Alcohol	5.0U	R	AF	5.0U	J	D	5.0U	R	AF	5.0U	R	AF	5.0U	J	D	5.0U	R	AF	5.0U	J	D

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Tier 3 Table 1A

Case No.: 33529 SDG No.: Y1JB6
Site: ALHAMBRA
Lab: LIBERTY ANALYTICAL CORPORATION
Reviewer: Nanny Estrada, ESAT/LDC
Date: January 25, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type: Low Level Water Samples
For Volatiles

Station Location:	23			Method Blank			Method Blank			Method Blank			Storage Blank			CRQL					
Sample ID:	Y1JD8			VBLKPT			VBLKPU			VBLKSD			VHBLKYI								
Collection Date:	11/9/2004																				
Dilution Factor:	1.0			1.0			1.0			1.0			1.0								
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	0.16L	J	BG	0.50U			0.50U			0.50U			0.50U			0.50					
Chloromethane	0.50U	J	C	0.50U			0.50U			0.50U			0.50U			0.50					
Vinyl Chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Bromomethane	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50					
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Trichlorofluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,1-Dichloroethene	3.6			0.50U			0.15L	J	B	0.50U			0.50U			0.50					
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20L	J	B	0.50U			0.50U			0.50U			0.50U			0.50					
Acetone	5.0U			5.0U			3.2L	J	BD	2.8L	J	B	5.0U	J	C	5.0					
Carbon Disulfide	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Methyl Acetate	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U			0.50U			0.50					
Methylene Chloride	0.13L	J	B	0.50U			0.50U			0.50U			0.50U			0.50					
trans-1,2-Dichloroethene	0.26L	J	B	0.50U			0.50U			0.50U			0.50U			0.50					
Methyl tert-Butyl Ether	0.44L	J	B	0.50U			0.50U			0.50U			0.50U			0.50					
1,1-Dichloroethane	0.41L	J	B	0.50U			0.50U			0.50U			0.50U			0.50					
cis-1,2-Dichloroethene	5.0			0.50U			0.50U			0.50U			0.50U			0.50					
2-Butanone	1.3L	J	B	5.0U			5.0U	J	D	5.0U			5.0U			5.0					
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Chloroform	0.94			0.50U			0.50U			0.50U			0.50U			0.50					
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Carbon Tetrachloride	1.4			0.50U			0.50U			0.50U			0.50U			0.50					
Benzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,2-Dichloroethane	0.91			0.50U			0.50U			0.50U			0.50U			0.50					
Trichloroethene	220		H	0.50U			0.50U			0.50U			0.50U			0.50					
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
cis-1,3-Dichloropropene	0.50U	J	C	0.12L	J	B	0.14L	J	B	0.17L	J	B	0.50U	J	C	0.50					
4-Methyl-2-pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0					
Toluene	0.50U	J	C	0.50U			0.50U			0.50U			0.50U			0.50					
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,1,2-Trichloroethane	0.28L	J	B	0.50U			0.50U			0.50U			0.50U			0.50					
Tetrachloroethene	9.2			0.50U			0.50U			0.50U			0.50U			0.50					
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0					
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					

ANALYTICAL RESULTS
Tier 3 Table 1A

Case No. : 33529 SDG No. : Y1JB6
Site : ALHAMBRA
Lab : LIBERTY ANALYTICAL CORPORATION
Reviewer : Nanny Estrada, ESAT/LDC
Date : January 25, 2005

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples
For Volatiles

Station Location :	23			Method Blank			Method Blank			Method Blank			Storage Blank			CRQL					
Sample ID :	Y1JD8			VBLKPT			VBLKPU			VBLKSD			VHBLKYI								
Collection Date :	11/9/2004																				
Dilution Factor :	1.0			1.0			1.0			1.0			1.0								
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Xylenes (total)	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
Styrene	0.50U			0.11L	J	B	0.50U			0.50U			0.50U			0.50					
Bromoform	0.50U	J	C	0.16L	J	B	0.29L	J	B	0.27L	J	B	0.50U	J	C	0.50					
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,4-Dichlorobenzene	0.50U			0.12L	J	B	0.50U			0.50U			0.50U			0.50					
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50					
1,2-Dibromo-3-chloropropane	0.50U			0.50U			0.50U			0.50U	J	E	0.50U	J	E	0.50					
1,2,4-Trichlorobenzene	0.50U			0.41L	J	B	0.24L	J	B	0.12L	J	B	0.50U			0.50					
1,2,3-Trichlorobenzene	0.50U			0.41L	J	B	0.27L	J	B	0.50U			0.50U			0.50					
tert-Butyl Alcohol	5.0U	J	D	5.0U	J	D	5.0U	R	A	5.0U	J	D	5.0U	J	D	5.0					

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

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

U	The analyte was analyzed for but was not detected above the reported sample quantitation limit.
L	Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Table 2
Calibration Summary

Case No.: 33529 SDG No.: Y1JB6
Site: Alhambra
Laboratory: CompuChem (LIBRTY)
Reviewer: Nanny Estrada, ESAT/LDC
Date: January 25, 2005

RELATIVE RESPONSE FACTORS

	$\overline{RRF}$	$\overline{RRF}$	RRF	RRF	RRF
Anal;ysis date:	11/11/04	11/15/04	11/11/04	11/12/04	11/18/04
Analysis time:	2043-2253	1217-1426	21:59	11:13	09:28
GC/MS I.D.:	HP71	HP71	HP71	HP71	HP71
Analyte	Init.	Init.	Cont.	Cont.	Cont.
tert-Butyl alcohol	0.010	0.014	0.010	0.006	0.011
Acetone	-----	-----	-----	0.032	-----
2-Butanone	-----	-----	-----	0.043	-----

ASSOCIATED SAMPLES AND METHOD BLANKS

Initial, 11/11/04:	Y1JB6, Y1JC5 through Y1JC9, Y1JD0 through Y1JD8, Y1JB6DL, Y1JD5DL, and JD8DL; VBLKPT and VBLKPU
Initial, 11/15/04:	method blank VBLKSD; storage blank VHBLKY1
Continuing, 11/11/04:	Y1JB6, Y1JC5 through Y1JC9, Y1JD0, Y1JD2, Y1JD5, Y1JD7, Y1JD8; method blank VBLKPT
Continuing, 11/12/04:	Y1JD1, Y1JD3, Y1JD4, Y1JD6, Y1JB6DL, Y1JD5DL, Y1JD8DL; method blank VBLKPU
Continuing, 11/18/04:	method blank VBLKSD; storage blank VHBLKY1.

ALKANE NARRATIVE REPORT
Report date : 11/23/2004
SDG: Y1JB6

Client Sample ID: Y1JD5 Lab Sample ID: 495404 File ID: 495404B71

Compound	RT	Est. Conc.	Q
Branched Alkane	3.39	26	J

Client Sample ID: Y1JC7 Lab Sample ID: 495411 File ID: 495411B71

Compound	RT	Est. Conc.	Q
Branched Alkane	10.72	1.0	J

Client Sample ID: Y1JD8DL Lab Sample ID: 495407 File ID: 495407DA71

Compound	RT	Est. Conc.	Q
Branched Alkane	10.72	11	JD

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y1JD4

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 33529 Client No.: 1125.0 SDG No.: Y1JB6

Lab Sample ID: 495403 Date Received: 11/10/2004

Lab File ID: 495403RA71 Date Analyzed: 11/12/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: EQUITY624 ID: 0.53(MM) Length: 75.0(M)

Number TICs found: 4

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		~~UNKNOWN~~ (Lab artifact)	~~4.17~~	~~1.8~~	~~J~~
02		~~UNKNOWN~~ ↓	~~7.63~~	~~1.2~~	~~J~~
03		UNKNOWN	9.62	0.61	J
04		~~LABORATORY ARTIFACT~~	~~10.51~~	~~0.67~~	~~J~~
05					
06					
07		SL, 1/24/05.			
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
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1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y1JD5

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 33529 Client No.: 1125.0 SDG No.: Y1JB6

Lab Sample ID: 495404 Date Received: 11/10/2004

Lab File ID: 495404B71 Date Analyzed: 11/12/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: EQUITY624 ID: 0.53(MM) Length: 75.0(M)

Number TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01	~~420-56-4~~	~~SILANE, FLUOROTRIMETHYL~~ (Lab artifact)	~~4.17~~	~~0.93~~	~~NJ~~
02		~~UNKNOWN~~ (Lab artifact)	~~7.63~~	~~1.9~~	~~J~~
03		UNKNOWN	10.71	0.80	J
04					
05					
06		SL. 11/4/05.			
07					
08					
09					
10					
11					
12					
13					
14					
15					
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27					
28					
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1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y1JD6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 33529 Client No.: 1125.0 SDG No.: Y1JB6

Lab Sample ID: 495405 Date Received: 11/10/2004

Lab File ID: 495405RA71 Date Analyzed: 11/12/2004

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: EQUITY624 ID: 0.53(MM) Length: 75.0(M)

Number TICs found: 6

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
01		UNKNOWN	3.58	25	J
02		~~UNKNOWN~~ (Lab artifact)	~~4.17~~	~~2.3~~	~~J~~
03		~~UNKNOWN~~	~~6.44~~	~~2.1~~	~~J~~
04		~~UNKNOWN~~	~~7.63~~	~~1.7~~	~~J~~
05		~~LABORATORY ARTIFACT~~	~~10.51~~	~~0.74~~	~~J~~
06		LABORATORY ARTIFACT	~~10.62~~	~~0.64~~	~~J~~
07					
08					
09		SL, 12/1/05.			
10					
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