



12065 Lebanon Rd.
Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

Chris Hines / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Wednesday February 15, 2012

Report Number: L559822

Samples Received: 02/09/12

Client Project:

Description: D27 Backgrounds

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

February 15, 2012

Chris Hines / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNE-02812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:45

ESC Sample # : L559822-01

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	20.	1.0	mg/kg	6010B	02/11/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN1-020812 6-8 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:52

ESC Sample # : L559822-02

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	16.	2.0	mg/kg	6010B	02/15/12	2

BDL - Below Detection Limit

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN2-020812 4-6 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:00

ESC Sample # : L559822-03

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	02/11/12	1

BDL - Below Detection Limit

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2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN3-020812 3-5 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:05

ESC Sample # : L559822-04
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNW-020812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:14

ESC Sample # : L559822-05
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNE-02812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:45

ESC Sample # : L559822-06
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	02/11/12	1

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Parachute, CO 81635

ESC Sample # : L559822-07

Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNE-02812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:45

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	19.	1.0	mg/kg	6010B	02/13/12	1

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Description : D27 Backgrounds
Sample ID : D27-BGNE-02812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:45

ESC Sample # : L559822-08

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNE-02812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:45

ESC Sample # : L559822-09

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	16.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN1-020812 6-8 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:52

ESC Sample # : L559822-10

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	02/11/12	1

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Description : D27 Backgrounds
Sample ID : D27-BGN1-020812 6-8 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:52

ESC Sample # : L559822-11

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	10.	1.0	mg/kg	6010B	02/11/12	1

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Description : D27 Backgrounds
Sample ID : D27-BGN1-020812 6-8 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:52

ESC Sample # : L559822-12
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN1-020812 6-8 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 10:52

ESC Sample # : L559822-13

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN2-020812 4-6 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:00

ESC Sample # : L559822-14

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	18.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN2-020812 4-6 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:00

ESC Sample # : L559822-15
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	17.	1.0	mg/kg	6010B	02/11/12	1

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Parachute, CO 81635

Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN2-020812 4-6 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:00

ESC Sample # : L559822-16
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.3	1.0	mg/kg	6010B	02/11/12	1

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Description : D27 Backgrounds
Sample ID : D27-BGN2-020812 4-6 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:00

ESC Sample # : L559822-17
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	30.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN3-020812 3-5 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:05

ESC Sample # : L559822-18
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.8	1.0	mg/kg	6010B	02/11/12	1

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Description : D27 Backgrounds
Sample ID : D27-BGN3-020812 3-5 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:05

ESC Sample # : L559822-19

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	9.6	1.0	mg/kg	6010B	02/11/12	1

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Description : D27 Backgrounds
Sample ID : D27-BGN3-020812 3-5 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:05

ESC Sample # : L559822-20
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	1.0	mg/kg	6010B	02/11/12	1

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGN3-020812 3-5 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:05

ESC Sample # : L559822-21

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	2.0	mg/kg	6010B	02/12/12	2

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNW-020812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:14

ESC Sample # : L559822-22
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.3	1.0	mg/kg	6010B	02/12/12	1

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REPORT OF ANALYSIS

February 15, 2012

Chris Hines / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNW-020812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:14

ESC Sample # : L559822-23

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.5	1.0	mg/kg	6010B	02/12/12	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 02/14/12 15:15 Revised: 02/15/12 18:25



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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNW-020812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:14

ESC Sample # : L559822-24
Site ID : D27
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	2.0	mg/kg	6010B	02/12/12	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Date Received : February 09, 2012
Description : D27 Backgrounds
Sample ID : D27-BGNW-020812 8-10 IN
Collected By : Brennen Graff
Collection Date : 02/08/12 11:14

ESC Sample # : L559822-25

Site ID : D27

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	11.	5.0	mg/kg	6010B	02/12/12	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L559822-25	WG578190	SAMP	Arsenic	R2033273	P1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
02/15/12 at 18:25:03

TSR Signing Reports: 358
R5 - Desired TAT

Try not to report benzene as BDL above a 250x dilution. ONLY log soil samples under this account. Waters get logged under ENCRCO.

Sample: L559822-01 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Sample: L559822-02 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Sample: L559822-03 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Sample: L559822-04 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Sample: L559822-05 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Sample: L559822-06 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -01
Sample: L559822-07 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -01
Sample: L559822-08 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -01
Sample: L559822-09 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -01
Sample: L559822-10 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -02
Sample: L559822-11 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -02
Sample: L559822-12 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -02
Sample: L559822-13 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -02
Sample: L559822-14 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -03
Sample: L559822-15 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -03
Sample: L559822-16 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -03
Sample: L559822-17 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -03
Sample: L559822-18 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -04
Sample: L559822-19 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -04
Sample: L559822-20 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -04
Sample: L559822-21 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -04
Sample: L559822-22 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -05
Sample: L559822-23 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -05
Sample: L559822-24 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -05
Sample: L559822-25 Account: ENCANACO Received: 02/09/12 09:00 Due Date: 02/16/12 00:00 RPT Date: 02/14/12 15:15
Use container from -05



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Level II

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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Arsenic	< 1	mg/kg			WG578039	02/11/12 14:30
Arsenic	< 1	mg/kg			WG578190	02/12/12 10:01
Arsenic	< 1	mg/kg			WG578283	02/13/12 21:50
Arsenic	< 1	mg/kg			WG578530	02/15/12 11:10

Analyte	Units	Result	Duplicate		RPD	Limit	Ref Samp	Batch
			Duplicate					
Arsenic	mg/kg	15.0	14.0	8.87	20	L559822-05	WG578039	
Arsenic	mg/kg	7.80	11.0	34.4*	20	L559822-25	WG578190	
Arsenic	mg/kg	7.70	8.59	11.3	20	L560173-33	WG578283	
Arsenic	mg/kg	6.60	6.80	3.14	20	L560389-05	WG578530	

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Arsenic	mg/kg	92.6	79.0	85.3	82.9-117	WG578039
Arsenic	mg/kg	92.6	81.6	88.1	82.9-117	WG578190
Arsenic	mg/kg	92.6	89.9	97.1	82.9-117	WG578283
Arsenic	mg/kg	92.6	91.8	99.1	82.9-117	WG578530

Analyte	Units	MS Res	Matrix Spike			% Rec	Limit	Ref Samp	Batch
			Ref Res	TV					
Arsenic	mg/kg	62.1	14.0	50	96.2	75-125	L559822-05	WG578039	
Arsenic	mg/kg	60.9	11.0	10	99.8	75-125	L559822-25	WG578190	
Arsenic	mg/kg	57.8	8.59	50	98.4	75-125	L560173-33	WG578283	
Arsenic	mg/kg	54.6	6.80	50	95.6	75-125	L560389-05	WG578530	

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Arsenic	mg/kg	56.1	62.1	84.2	75-125	10.2	20	L559822-05	WG578039

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Arsenic	mg/kg	63.2	60.9	104.	75-125	3.71	20	L559822-25	WG578190
Arsenic	mg/kg	58.4	57.8	99.6	75-125	1.03	20	L560173-33	WG578283
Arsenic	mg/kg	56.5	54.6	99.4	75-125	3.42	20	L560389-05	WG578530

Batch number /Run number / Sample number cross reference

WG578039: R2032995: L559822-01 02 03 04 05 06 08 09 10 11 12 13 14 15 16 17 18 19 20
 WG578190: R2033272 R2033273: L559822-24 21 22 23 25
 WG578283: R2035692: L559822-07
 WG578530: R2037573: L559822-02

* * Calculations are performed prior to rounding of reported values.
 * Performance of this Analyte is outside of established criteria.
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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.