Analytical Results Summary

Report of Analysis

06/13/06 15:31

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28846

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-MS-7-053106-JAS-015**
Station:
Description:
LIMS Number: L28846-1

Collect Start: 05/31/2006 16:05
Collect Stop:
Receive Date: 06/02/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**3.05E+02**	1.15E+02	1.75E+02	pCi/L		10	ml		06/11/06	135	M	+		
TOTAL SR	2018	1.20E+00	8.67E-01	**1.51E+00**	pCi/L		450	ml	05/31/06 16:05	06/12/06	200	M	U		
MN-54	2007	1.26E+00	2.80E+00	**4.73E+00**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
CO-58	2007	-2.04E+00	3.32E+00	**5.31E+00**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
FE-59	2007	4.99E+00	6.43E+00	**1.11E+01**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
CO-60	2007	6.55E-01	2.98E+00	**4.93E+00**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
ZN-65	2007	4.21E+00	7.91E+00	**1.15E+01**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
NB-95	2007	-3.52E-01	3.16E+00	**5.20E+00**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
ZR-95	2007	4.78E+00	5.71E+00	**9.85E+00**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
CS-134	2007	-7.55E-02	3.73E+00	**5.15E+00**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
CS-137	2007	1.17E+00	3.17E+00	**5.26E+00**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
BA-140	2007	-1.39E+00	1.79E+01	**2.95E+01**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No
LA-140	2007	5.07E+00	5.84E+00	**1.03E+01**	pCi/L		3159.87	ml	05/31/06 16:05	06/11/06	24000	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/13/06 15:31

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28846

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-MS-1-053106-JAS-011**
Station:
Description:
LIMS Number: L28846-2

Collect Start: 05/31/2006 11:25
Collect Stop:
Receive Date: 06/02/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**2.87E+03**	1.76E+02	1.77E+02	pCi/L		10	ml		06/11/06	135	M	+	High	
TOTAL SR	2018	3.38E-01	4.22E-01	**7.60E-01**	pCi/L		450	ml	05/31/06 11:25	06/12/06	200	M	U		
MN-54	2007	8.44E-01	2.24E+00	**3.89E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
CO-58	2007	-2.22E-01	2.37E+00	**4.02E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
FE-59	2007	-1.71E+00	4.72E+00	**8.03E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
CO-60	2007	-1.13E+00	2.07E+00	**3.46E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
ZN-65	2007	7.19E+00	4.74E+00	**8.82E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
NB-95	2007	-1.14E+00	2.35E+00	**3.93E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
ZR-95	2007	1.36E+00	4.24E+00	**7.35E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
CS-134	2007	4.03E+00	4.96E+00	**4.11E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
CS-137	2007	5.28E-01	2.41E+00	**4.16E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
BA-140	2007	5.72E+00	1.42E+01	**2.43E+01**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No
LA-140	2007	-8.50E-01	4.39E+00	**7.63E+00**	pCi/L		3146.65	ml	05/31/06 11:25	06/11/06	24000	Sec	U		No

Flag Values
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MDC - Minimum Detectable Concentration

Report of Analysis

06/13/06 15:31

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28846

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-48N-053106-JC-009**
Station:
Description:
LIMS Number: L28846-3

Collect Start: 05/31/2006 09:50
Collect Stop:
Receive Date: 06/02/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**2.23E+02**	1.14E+02	1.77E+02	pCi/L		10	ml		06/11/06	135	M	+		
TOTAL SR	2018	2.98E-02	8.97E-01	**1.70E+00**	pCi/L		450	ml	05/31/06 09:50	06/12/06	200	M	U		
MN-54	2007	-1.88E-01	1.73E+00	**2.81E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No
CO-58	2007	-8.92E-01	1.95E+00	**3.12E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No
FE-59	2007	8.77E-01	3.94E+00	**6.52E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No
CO-60	2007	1.19E+00	2.71E+00	**3.40E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		Yes
ZN-65	2007	7.50E+00	4.61E+00	**7.10E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U*		No
NB-95	2007	1.83E+00	1.89E+00	**3.23E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No
ZR-95	2007	-3.10E+00	3.40E+00	**5.37E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No
CS-134	2007	-2.33E+00	2.42E+00	**3.16E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No
CS-137	2007	1.20E+00	1.86E+00	**3.17E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No
BA-140	2007	4.02E+00	1.13E+01	**1.88E+01**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No
LA-140	2007	3.04E+00	3.78E+00	**6.57E+00**	pCi/L		3116.71	ml	05/31/06 09:50	06/11/06	33651	Sec	U		No

Comment: 1 Client ID corrected 6/9/06

Flag Values
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MDC - Minimum Detectable Concentration

Report of Analysis

06/13/06 15:31

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28846

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-48N-053106-JC-010**
Station:
Description:
LIMS Number: L28846-4

Collect Start: 05/31/2006 09:55
Collect Stop:
Receive Date: 06/02/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	1.65E+02	1.11E+02	**1.75E+02**	pCi/L		10	ml		06/11/06	135	M	U		
TOTAL SR	2018	1.16E+00	8.80E-01	**1.53E+00**	pCi/L		450	ml	05/31/06 09:55	06/12/06	200	M	U		
MN-54	2007	-5.90E-01	1.63E+00	**2.65E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
CO-58	2007	-3.59E-01	1.78E+00	**2.92E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
FE-59	2007	2.49E+00	3.44E+00	**5.88E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
CO-60	2007	-2.20E-01	1.59E+00	**2.58E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
ZN-65	2007	2.32E+00	3.34E+00	**5.69E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
NB-95	2007	2.14E+00	1.76E+00	**3.04E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
ZR-95	2007	-3.41E+00	3.09E+00	**4.80E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
CS-134	2007	5.71E+00	3.73E+00	**3.12E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U*		No
CS-137	2007	1.61E+00	1.69E+00	**2.86E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
BA-140	2007	4.12E+00	1.04E+01	**1.75E+01**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No
LA-140	2007	9.86E-01	3.25E+00	**5.44E+00**	pCi/L		3023.83	ml	05/31/06 09:55	06/11/06	33781	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
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Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

QC Results Summary

QC Summary Report for L28846

6/13/2006 3:12:30PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

H-3

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4110-1	H-3	WO	06/11/2006 4:13	< 1.700E+00	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4110-2	H-3	WO	06/11/2006 5:16	5.05E+002	4.930E+02	pCi/Total	97.7	70-130	+	P

Spike ID: 3H-041706-1
Spike conc: 5.05E+002
Spike Vol: 1.00E+000

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4110-3 L28846-1	H-3	WG	06/11/2006 5:35	3.050E+02	2.380E+02	pCi/L		<30	*	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28846

6/13/2006 3:12:30PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28846 **H-3**

Associated Samples for **WG4110**

SAMPLENUM	CLIENTID
L28846-1	WG-TMI-MS-7-053106-JAS-015
L28846-2	WG-TMI-MS-1-053106-JAS-011
L28846-3	WG-TMI-48N-053106-JC-009
L28846-4	WG-TMI-48N-053106-JC-010

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28846

6/13/2006 3:12:30PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

TOTAL SR

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4135-1	TOTAL SR	WO	06/12/2006 17:54	< 6.410E-01	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4135-2	TOTAL SR	WO	06/12/2006 17:54	5.84E+001	6.350E+01	pCi/Total	108.8	70-130	+	P

Spike ID: 90SR-011905
Spike conc: 2.34E+002
Spike Vol: 2.50E-001

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4135-3 L28846-1	TOTAL SR	WG	06/12/2006 17:54	< 1.510E+00	< 1.820E+00	pCi/L		<30	**	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28846

6/13/2006 3:12:30PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28846 **SR-90 (FAST)**

Associated Samples for **WG4135**

SAMPLENUM	CLIENTID
L28846-1	WG-TMI-MS-7-053106-JAS-015
L28846-2	WG-TMI-MS-1-053106-JAS-011
L28846-3	WG-TMI-48N-053106-JC-009
L28846-4	WG-TMI-48N-053106-JC-010

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

Raw Data

Raw Data Sheet (rawdata)
Jun 13 2006, 03:23 pm

Work Order: L28846 Customer: Exelon

Nuclide: H-3 Project : EX001-3ESPTMI-06

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L28846-1 WG-TMI-MS-7-053106-JAS		H-3		10 ml			0		11-jun-06 00:31	LS5	686	135	3.73	135	.2		SO
Activity: 3.05E+02 * Error: 1.15E+02				MDC: 1.75E+02													
L28846-2 WG-TMI-MS-1-053106-JAS		H-3		10 ml			0		11-jun-06 02:49	LS5	2196	135	3.73	135	.197		SO
Activity: 2.87E+03 * Error: 1.76E+02				MDC: 1.77E+02													
L28846-3 WG-TMI-48N-053106-JC-0		H-3		10 ml			0		11-jun-06 05:07	LS5	636	135	3.73	135	.198		SO
Activity: 2.23E+02 * Error: 1.14E+02				MDC: 1.77E+02													
L28846-4 WG-TMI-48N-053106-JC-0		H-3		10 ml			0		11-jun-06 07:25	LS5	602	135	3.73	135	.2		SO
Activity: 1.65E+02 Error: 1.11E+02				MDC: 1.75E+02 *													

Raw Data Sheet (rawdata)
Jun 13 2006, 03:23 pm

Work Order: *L28846* Customer: *Exelon*

Nuclide: *SR-90 (FAST)* Project : *EX001-3ESPTMI-06*

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L28846-1		TOTAL SR	31-may-06		12-jun-06		0		12-jun-06	X4D	218	200	340	400	.353	.999	LCB
WG-TMI-MS-7-053106-JAS			16:05	450 ml	11:00			56.99	17:54								
Activity: 1.2E+00	Error: 8.67E-01		MDC: 1.51E+00 *														
L28846-2		TOTAL SR	31-may-06		12-jun-06		0		12-jun-06	Y1A	164	200	279	400	.341	.999	LCB
WG-TMI-MS-1-053106-JAS			11:25	450 ml	11:00			106.45	18:04								
Activity: 3.38E-01	Error: 4.22E-01		MDC: 7.6E-01 *														
L28846-3		TOTAL SR	31-may-06		12-jun-06		0		12-jun-06	Y1C	151	200	300	400	.345	.999	LCB
WG-TMI-48N-053106-JC-0			09:50	450 ml	11:00			48.66	18:04								
Activity: 2.98E-02	Error: 8.97E-01		MDC: 1.7E+00 *														
L28846-4		TOTAL SR	31-may-06		12-jun-06		0		12-jun-06	Y1D	196	200	305	400	.362	.999	LCB
WG-TMI-48N-053106-JC-0			09:55	450 ml	11:00			51.88	18:04								
Activity: 1.16E+00	Error: 8.8E-01		MDC: 1.53E+00 *														

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 23:01:15.71
TBE15 P-10635B HpGe ********** Aquisition Date/Time: 11-JUN-2006 16:21:02.15

LIMS No., Customer Name, Client ID: WG L28846-1 EXELON TMI

Sample ID : 15L28846-1
Sample Type : WG
Quantity : 3.15990E+00 L
Start Channel : 40 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 31-MAY-2006 16:05:00.
Geometry : 153L082604
BKGFILE : 15BG060306MT
Real Time : 0 06:40:02.40
Live time : 0 06:40:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	54.13	104	914	2.72	95.59	1.64E-01	4.34E-03	59.3	2.02E+00
2	1	65.95	170	692	1.32	119.36	4.26E-01	7.06E-03	27.8	3.76E+00
3	1	140.11	110	663	1.23	268.51	1.48E+00	4.56E-03	43.7	3.08E+00
4	1	198.29	125	504	1.79	385.51	1.37E+00	5.22E-03	35.2	2.19E+00
5	1	352.34*	106	278	2.93	695.26	9.15E-01	4.42E-03	36.4	3.31E+00
6	1	608.58	126	106	2.12	1210.35	5.87E-01	5.23E-03	17.7	1.51E+00
7	1	1120.45	59	69	5.46	2238.77	3.58E-01	2.46E-03	35.9	3.31E+00
8	1	1763.77	40	21	2.28	3530.31	2.54E-01	1.65E-03	28.3	7.51E-01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 15L28846-1
Acquisition date : 11-JUN-2006 16:21:02

Total number of lines in spectrum	8	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	0	0.00%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 15L28846-1 Acquisition date : 11-JUN-2006 16:21:02

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	54.13	104	914	2.72	95.59	90	12	4.34E-03	****	1.64E-01	
1	65.95	170	692	1.32	119.36	116	8	7.06E-03	55.5	4.26E-01	
1	140.11	110	663	1.23	268.51	263	9	4.56E-03	87.4	1.48E+00	
1	198.29	125	504	1.79	385.51	381	10	5.22E-03	70.5	1.37E+00	
1	352.34	106	278	2.93	695.26	690	12	4.42E-03	72.7	9.15E-01	
1	608.58	126	106	2.12	1210.35	1206	10	5.23E-03	35.3	5.87E-01	
1	1120.45	59	69	5.46	2238.77	2231	18	2.46E-03	71.7	3.58E-01	
1	1763.77	40	21	2.28	3530.31	3525	12	1.65E-03	56.6	2.54E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 8
Number of unidentified lines 8
Number of lines tentatively identified by NID 0 0.00%
**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.165E+01		2.627E+01	4.448E+01	0.000E+00	0.262
NA-24	-3.206E-01		3.485E-01	Half-Life too short		
K-40	1.515E+02		4.525E+01	8.386E+01	0.000E+00	1.807
CR-51	-1.435E+01		3.104E+01	5.060E+01	0.000E+00	-0.284
MN-54	1.258E+00		2.800E+00	4.727E+00	0.000E+00	0.266
CO-57	1.130E+00		2.906E+00	4.559E+00	0.000E+00	0.248
CO-58	-2.044E+00		3.323E+00	5.308E+00	0.000E+00	-0.385
FE-59	4.986E+00		6.427E+00	1.113E+01	0.000E+00	0.448
CO-60	6.547E-01		2.975E+00	4.931E+00	0.000E+00	0.133
ZN-65	4.208E+00		7.905E+00	1.151E+01	0.000E+00	0.366
SE-75	-2.438E+00		3.893E+00	6.167E+00	0.000E+00	-0.395
SR-85	1.599E+01		3.640E+00	6.825E+00	0.000E+00	2.342
Y-88	-1.566E+00		3.476E+00	5.525E+00	0.000E+00	-0.283
NB-94	1.904E+00		2.913E+00	4.878E+00	0.000E+00	0.390
NB-95	-3.519E-01		3.158E+00	5.202E+00	0.000E+00	-0.068
ZR-95	4.780E+00		5.708E+00	9.852E+00	0.000E+00	0.485
MO-99	3.995E+01		3.601E+02	6.012E+02	0.000E+00	0.066
RU-103	4.270E+00		3.538E+00	6.138E+00	0.000E+00	0.696
RU-106	-2.262E+01		2.752E+01	4.323E+01	0.000E+00	-0.523
AG-110m	-3.110E-01		2.950E+00	4.783E+00	0.000E+00	-0.065

SN-113	1.690E+00	3.928E+00	6.521E+00	0.000E+00	0.259
SB-124	-1.169E+01	4.294E+00	4.892E+00	0.000E+00	-2.390
SB-125	1.880E+00	8.243E+00	1.353E+01	0.000E+00	0.139
TE-129M	2.526E+01	3.909E+01	6.502E+01	0.000E+00	0.389
I-131	2.759E+00	7.517E+00	1.250E+01	0.000E+00	0.221
BA-133	4.664E+00	4.567E+00	6.695E+00	0.000E+00	0.697
CS-134	-7.547E-02	3.725E+00	5.151E+00	0.000E+00	-0.015
CS-136	-4.691E-02	4.937E+00	8.138E+00	0.000E+00	-0.006
CS-137	1.166E+00	3.171E+00	5.261E+00	0.000E+00	0.222
CE-139	2.581E+00	2.762E+00	4.663E+00	0.000E+00	0.553
BA-140	-1.392E+00	1.793E+01	2.952E+01	0.000E+00	-0.047
LA-140	5.071E+00	5.835E+00	1.027E+01	0.000E+00	0.494
CE-141	6.863E+00	6.484E+00	9.536E+00	0.000E+00	0.720
CE-144	1.670E+01	2.357E+01	3.444E+01	0.000E+00	0.485
EU-152	-3.728E+00	1.023E+01	1.454E+01	0.000E+00	-0.256
EU-154	2.094E+00	5.940E+00	9.304E+00	0.000E+00	0.225
RA-226	-2.469E+01	7.355E+01	1.126E+02	0.000E+00	-0.219
AC-228	1.099E+01	1.098E+01	1.896E+01	0.000E+00	0.579
TH-228	4.991E+00	5.620E+00	8.712E+00	0.000E+00	0.573
TH-232	1.095E+01	1.094E+01	1.889E+01	0.000E+00	0.579
U-235	1.814E+01	2.364E+01	3.448E+01	0.000E+00	0.526
U-238	2.628E+02	3.315E+02	5.647E+02	0.000E+00	0.465
AM-241	-6.733E+01	4.798E+01	5.268E+01	0.000E+00	-1.278

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A,15L28846-1       ,06/11/2006 23:01,05/31/2006 16:05,   3.160E+00,WG L28846-1 EX
B,15L28846-1       ,LIBD                   ,06/06/2006 10:43,153L082604
C,BE-7     ,NO ,   1.165E+01,   2.627E+01,   4.448E+01,,    0.262
C,K-40     ,NO ,   1.515E+02,   4.525E+01,   8.386E+01,,    1.807
C,CR-51    ,NO ,  -1.435E+01,   3.104E+01,   5.060E+01,,   -0.284
C,MN-54    ,NO ,   1.258E+00,   2.800E+00,   4.727E+00,,    0.266
C,CO-57    ,NO ,   1.130E+00,   2.906E+00,   4.559E+00,,    0.248
C,CO-58    ,NO ,  -2.044E+00,   3.323E+00,   5.308E+00,,   -0.385
C,FE-59    ,NO ,   4.986E+00,   6.427E+00,   1.113E+01,,    0.448
C,CO-60    ,NO ,   6.547E-01,   2.975E+00,   4.931E+00,,    0.133
C,ZN-65    ,NO ,   4.208E+00,   7.905E+00,   1.151E+01,,    0.366
C,SE-75    ,NO ,  -2.438E+00,   3.893E+00,   6.167E+00,,   -0.395
C,SR-85    ,NO ,   1.599E+01,   3.640E+00,   6.825E+00,,    2.342
C,Y-88     ,NO ,  -1.566E+00,   3.476E+00,   5.525E+00,,   -0.283
C,NB-94    ,NO ,   1.904E+00,   2.913E+00,   4.878E+00,,    0.390
C,NB-95    ,NO ,  -3.519E-01,   3.158E+00,   5.202E+00,,   -0.068
C,ZR-95    ,NO ,   4.780E+00,   5.708E+00,   9.852E+00,,    0.485
C,MO-99    ,NO ,   3.995E+01,   3.601E+02,   6.012E+02,,    0.066
C,RU-103   ,NO ,   4.270E+00,   3.538E+00,   6.138E+00,,    0.696
C,RU-106   ,NO ,  -2.262E+01,   2.752E+01,   4.323E+01,,   -0.523
C,AG-110m  ,NO ,  -3.110E-01,   2.950E+00,   4.783E+00,,   -0.065
C,SN-113   ,NO ,   1.690E+00,   3.928E+00,   6.521E+00,,    0.259
C,SB-124   ,NO ,  -1.169E+01,   4.294E+00,   4.892E+00,,   -2.390
C,SB-125   ,NO ,   1.880E+00,   8.243E+00,   1.353E+01,,    0.139
C,TE-129M  ,NO ,   2.526E+01,   3.909E+01,   6.502E+01,,    0.389
C,I-131    ,NO ,   2.759E+00,   7.517E+00,   1.250E+01,,    0.221
C,BA-133   ,NO ,   4.664E+00,   4.567E+00,   6.695E+00,,    0.697
C,CS-134   ,NO ,  -7.547E-02,   3.725E+00,   5.151E+00,,   -0.015
C,CS-136   ,NO ,  -4.691E-02,   4.937E+00,   8.138E+00,,   -0.006
C,CS-137   ,NO ,   1.166E+00,   3.171E+00,   5.261E+00,,    0.222
C,CE-139   ,NO ,   2.581E+00,   2.762E+00,   4.663E+00,,    0.553
C,BA-140   ,NO ,  -1.392E+00,   1.793E+01,   2.952E+01,,   -0.047
C,LA-140   ,NO ,   5.071E+00,   5.835E+00,   1.027E+01,,    0.494
C,CE-141   ,NO ,   6.863E+00,   6.484E+00,   9.536E+00,,    0.720
C,CE-144   ,NO ,   1.670E+01,   2.357E+01,   3.444E+01,,    0.485
C,EU-152   ,NO ,  -3.728E+00,   1.023E+01,   1.454E+01,,   -0.256
C,EU-154   ,NO ,   2.094E+00,   5.940E+00,   9.304E+00,,    0.225
C,RA-226   ,NO ,  -2.469E+01,   7.355E+01,   1.126E+02,,   -0.219
C,AC-228   ,NO ,   1.099E+01,   1.098E+01,   1.896E+01,,    0.579
C,TH-228   ,NO ,   4.991E+00,   5.620E+00,   8.712E+00,,    0.573
C,TH-232   ,NO ,   1.095E+01,   1.094E+01,   1.889E+01,,    0.579
C,U-235    ,NO ,   1.814E+01,   2.364E+01,   3.448E+01,,    0.526
C,U-238    ,NO ,   2.628E+02,   3.315E+02,   5.647E+02,,    0.465
C,AM-241   ,NO ,  -6.733E+01,   4.798E+01,   5.268E+01,,   -1.278
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Sec. Review: Analyst: RDS LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 23:01:50.96
TBE23 03017322 HpGe ********** Aquisition Date/Time: 11-JUN-2006 16:21:23.33

LIMS No., Customer Name, Client ID: WG L28846-2 EXELON TMI

Sample ID : 23L28846-2
Sample Type : WG
Quantity : 3.14670E+00 L
Start Channel : 50 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 31-MAY-2006 11:25:00.
Geometry : 2335L090704
BKGFILE : 23BG060306MT
Real Time : 0 06:40:16.52
Live time : 0 06:40:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	6	33.77*	81	36	1.14	67.87	9.36E-02	3.36E-03	37.2	1.21E+00
2	6	35.48*	53	176	1.78	71.28	1.21E-01	2.23E-03	90.3	
3	6	39.30*	36	381	1.69	78.91	1.97E-01	1.49E-03	127.4	
4	0	64.25*	288	1161	1.13	128.78	9.72E-01	1.20E-02	25.9	
5	0	92.43*	75	1016	1.20	185.10	1.69E+00	3.14E-03	88.5	
6	0	139.74*	111	929	1.41	279.65	2.05E+00	4.62E-03	54.3	
7	0	185.33*	48	636	1.49	370.77	1.95E+00	2.01E-03	112.4	
8	0	198.06*	98	725	1.18	396.20	1.90E+00	4.09E-03	54.6	
9	0	569.38*	22	184	1.54	1138.46	9.05E-01	9.04E-04	138.3	
10	0	583.04*	26	133	1.46	1165.77	8.88E-01	1.07E-03	103.8	
11	0	595.53	97	163	1.40	1190.76	8.74E-01	4.04E-03	29.0	
12	0	609.37*	16	187	1.35	1218.41	8.59E-01	6.76E-04	210.7	
13	0	911.50*	60	83	2.71	1822.54	6.38E-01	2.48E-03	41.6	
14	0	1953.80	25	30	3.82	3907.73	3.70E-01	1.04E-03	51.4	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
RA-226	186.21	48	3.28*	1.949E+00	2.706E+01	2.706E+01	224.81
AC-228	835.50	------	1.75	6.790E-01	------	Line Not Found	------
	911.07	60	27.70*	6.381E-01	1.207E+01	1.212E+01	83.29
TH-232	583.14	26	30.25	8.885E-01	3.422E+00	3.422E+00	207.51
	911.07	60	27.70*	6.381E-01	1.207E+01	1.207E+01	83.29
	969.11	------	16.60	6.111E-01	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 23L28846-2
Acquisition date : 11-JUN-2006 16:21:23

Total number of lines in spectrum	14	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	3	21.43%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
RA-226	1600.00Y	1.00	2.706E+01	2.706E+01	6.084E+01	224.81	
AC-228	5.75Y	1.00	1.207E+01	1.212E+01	1.009E+01	83.29	
TH-232	1.41E+10Y	1.00	1.207E+01	1.207E+01	1.005E+01	83.29	
			---	---			
	Total Activity :		5.121E+01	5.125E+01			
	Grand Total Activity :		5.121E+01	5.125E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 23L28846-2

Acquisition date : 11-JUN-2006 16:21:23

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
6	33.77	81	36	1.14	67.87	64	27	3.36E-03	74.4	9.36E-02	
6	35.48	53	176	1.78	71.28	64	27	2.23E-03	****	1.21E-01	
6	39.30	36	381	1.69	78.91	64	27	1.49E-03	****	1.97E-01	
0	64.25	288	1161	1.13	128.78	124	12	1.20E-02	51.9	9.72E-01	
0	92.43	75	1016	1.20	185.10	181	9	3.14E-03	****	1.69E+00	
0	139.74	111	929	1.41	279.65	275	9	4.62E-03	****	2.05E+00	
0	198.06	98	725	1.18	396.20	392	9	4.09E-03	****	1.90E+00	
0	569.38	22	184	1.54	1138.46	1133	12	9.04E-04	****	9.05E-01	
0	595.53	97	163	1.40	1190.76	1185	13	4.04E-03	57.9	8.74E-01	
0	609.37	16	187	1.35	1218.41	1213	13	6.76E-04	****	8.59E-01	
0	1953.80	25	30	3.82	3907.73	3900	14	1.04E-03	****	3.70E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	14	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	3	21.43%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
RA-226	1600.00Y	1.00	2.706E+01	2.706E+01	6.084E+01	224.81	
AC-228	5.75Y	1.00	8.650E+00	8.683E+00	12.36E+00	142.31	
TH-232	1.41E+10Y	1.00	3.422E+00	3.422E+00	7.102E+00	207.51	
		Total Activity :	3.914E+01	3.917E+01			

Grand Total Activity : 3.914E+01 3.917E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

Interfering Nuclide	Interfering Line	Interfered Nuclide	Interfered Line
TH-232	911.07	AC-228	911.07

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
RA-226	2.706E+01	6.084E+01	9.947E+01	0.000E+00	0.272
AC-228	8.683E+00	1.236E+01	1.271E+01	0.000E+00	0.683
TH-232	3.422E+00	7.102E+00	1.422E+01	0.000E+00	0.241

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	2.623E+00		2.174E+01	3.671E+01	0.000E+00	0.071
NA-24	-3.729E-01		3.299E-01	Half-Life too short		
K-40	-2.299E+01		3.515E+01	6.524E+01	0.000E+00	-0.352
CR-51	-2.062E+01		2.611E+01	4.329E+01	0.000E+00	-0.476
MN-54	8.441E-01		2.244E+00	3.890E+00	0.000E+00	0.217
CO-57	-1.479E+00		2.545E+00	4.219E+00	0.000E+00	-0.351
CO-58	-2.219E-01		2.367E+00	4.023E+00	0.000E+00	-0.055
FE-59	-1.710E+00		4.722E+00	8.030E+00	0.000E+00	-0.213
CO-60	-1.130E+00		2.069E+00	3.459E+00	0.000E+00	-0.327
ZN-65	7.186E+00		4.739E+00	8.818E+00	0.000E+00	0.815
SE-75	-7.096E-02		3.257E+00	5.531E+00	0.000E+00	-0.013
SR-85	1.504E+01		2.781E+00	5.346E+00	0.000E+00	2.814
Y-88	-2.850E+00		2.607E+00	4.193E+00	0.000E+00	-0.680
NB-94	1.582E-01		2.139E+00	3.669E+00	0.000E+00	0.043
NB-95	-1.143E+00		2.350E+00	3.927E+00	0.000E+00	-0.291
ZR-95	1.360E+00		4.236E+00	7.348E+00	0.000E+00	0.185
MO-99	-1.982E+02		2.796E+02	4.630E+02	0.000E+00	-0.428
RU-103	2.207E+00		2.725E+00	4.707E+00	0.000E+00	0.469
RU-106	-1.233E+01		2.052E+01	3.342E+01	0.000E+00	-0.369
AG-110m	-6.495E-02		2.192E+00	3.756E+00	0.000E+00	-0.017
SN-113	-1.811E+00		3.159E+00	5.236E+00	0.000E+00	-0.346
SB-124	-1.893E-01		5.473E+00	4.021E+00	0.000E+00	-0.047
SB-125	1.276E+00		6.546E+00	1.110E+01	0.000E+00	0.115
TE-129M	-2.321E+01		3.121E+01	5.116E+01	0.000E+00	-0.454
I-131	5.751E+00		6.092E+00	1.057E+01	0.000E+00	0.544
BA-133	-1.317E+00		3.160E+00	5.278E+00	0.000E+00	-0.250
CS-134	4.029E+00		4.955E+00	4.107E+00	0.000E+00	0.981
CS-136	-2.556E-01		3.751E+00	6.387E+00	0.000E+00	-0.040
CS-137	5.280E-01		2.405E+00	4.160E+00	0.000E+00	0.127
CE-139	-4.910E-01		2.625E+00	4.352E+00	0.000E+00	-0.113
BA-140	5.723E+00		1.422E+01	2.425E+01	0.000E+00	0.236
LA-140	-8.501E-01		4.392E+00	7.629E+00	0.000E+00	-0.111
CE-141	2.246E+00		6.154E+00	8.795E+00	0.000E+00	0.255
CE-144	-6.558E+00		2.372E+01	3.340E+01	0.000E+00	-0.196
EU-152	-1.389E+01		7.253E+00	1.162E+01	0.000E+00	-1.196
EU-154	-1.702E+00		5.240E+00	8.723E+00	0.000E+00	-0.195
TH-228	2.522E-01		5.056E+00	7.803E+00	0.000E+00	0.032
U-235	1.542E+01		2.365E+01	3.270E+01	0.000E+00	0.472
U-238	3.138E+01		2.569E+02	4.172E+02	0.000E+00	0.075
AM-241	2.303E+01		1.555E+01	2.261E+01	0.000E+00	1.019

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A,23L28846-2        ,06/11/2006 23:01,05/31/2006 11:25,   3.147E+00,WG L28846-2 EX
B,23L28846-2        ,LIBD                ,06/01/2006 10:14,2335L090704
C,RA-226   ,YES,   2.706E+01,   6.084E+01,   9.947E+01,,    0.272
C,AC-228   ,YES,   8.683E+00,   1.236E+01,   1.271E+01,,    0.683
C,TH-232   ,YES,   3.422E+00,   7.102E+00,   1.422E+01,,    0.241
C,BE-7     ,NO ,   2.623E+00,   2.174E+01,   3.671E+01,,    0.071
C,K-40     ,NO ,  -2.299E+01,   3.515E+01,   6.524E+01,,   -0.352
C,CR-51    ,NO ,  -2.062E+01,   2.611E+01,   4.329E+01,,   -0.476
C,MN-54    ,NO ,   8.441E-01,   2.244E+00,   3.890E+00,,    0.217
C,CO-57    ,NO ,  -1.479E+00,   2.545E+00,   4.219E+00,,   -0.351
C,CO-58    ,NO ,  -2.219E-01,   2.367E+00,   4.023E+00,,   -0.055
C,FE-59    ,NO ,  -1.710E+00,   4.722E+00,   8.030E+00,,   -0.213
C,CO-60    ,NO ,  -1.130E+00,   2.069E+00,   3.459E+00,,   -0.327
C,ZN-65    ,NO ,   7.186E+00,   4.739E+00,   8.818E+00,,    0.815
C,SE-75    ,NO ,  -7.096E-02,   3.257E+00,   5.531E+00,,   -0.013
C,SR-85    ,NO ,   1.504E+01,   2.781E+00,   5.346E+00,,    2.814
C,Y-88     ,NO ,  -2.850E+00,   2.607E+00,   4.193E+00,,   -0.680
C,NB-94    ,NO ,   1.582E-01,   2.139E+00,   3.669E+00,,    0.043
C,NB-95    ,NO ,  -1.143E+00,   2.350E+00,   3.927E+00,,   -0.291
C,ZR-95    ,NO ,   1.360E+00,   4.236E+00,   7.348E+00,,    0.185
C,MO-99    ,NO ,  -1.982E+02,   2.796E+02,   4.630E+02,,   -0.428
C,RU-103   ,NO ,   2.207E+00,   2.725E+00,   4.707E+00,,    0.469
C,RU-106   ,NO ,  -1.233E+01,   2.052E+01,   3.342E+01,,   -0.369
C,AG-110m  ,NO ,  -6.495E-02,   2.192E+00,   3.756E+00,,   -0.017
C,SN-113   ,NO ,  -1.811E+00,   3.159E+00,   5.236E+00,,   -0.346
C,SB-124   ,NO ,  -1.893E-01,   5.473E+00,   4.021E+00,,   -0.047
C,SB-125   ,NO ,   1.276E+00,   6.546E+00,   1.110E+01,,    0.115
C,TE-129M  ,NO ,  -2.321E+01,   3.121E+01,   5.116E+01,,   -0.454
C,I-131    ,NO ,   5.751E+00,   6.092E+00,   1.057E+01,,    0.544
C,BA-133   ,NO ,  -1.317E+00,   3.160E+00,   5.278E+00,,   -0.250
C,CS-134   ,NO ,   4.029E+00,   4.955E+00,   4.107E+00,,    0.981
C,CS-136   ,NO ,  -2.556E-01,   3.751E+00,   6.387E+00,,   -0.040
C,CS-137   ,NO ,   5.280E-01,   2.405E+00,   4.160E+00,,    0.127
C,CE-139   ,NO ,  -4.910E-01,   2.625E+00,   4.352E+00,,   -0.113
C,BA-140   ,NO ,   5.723E+00,   1.422E+01,   2.425E+01,,    0.236
C,LA-140   ,NO ,  -8.501E-01,   4.392E+00,   7.629E+00,,   -0.111
C,CE-141   ,NO ,   2.246E+00,   6.154E+00,   8.795E+00,,    0.255
C,CE-144   ,NO ,  -6.558E+00,   2.372E+01,   3.340E+01,,   -0.196
C,EU-152   ,NO ,  -1.389E+01,   7.253E+00,   1.162E+01,,   -1.196
C,EU-154   ,NO ,  -1.702E+00,   5.240E+00,   8.723E+00,,   -0.195
C,TH-228   ,NO ,   2.522E-01,   5.056E+00,   7.803E+00,,    0.032
C,U-235    ,NO ,   1.542E+01,   2.365E+01,   3.270E+01,,    0.472
C,U-238    ,NO ,   3.138E+01,   2.569E+02,   4.172E+02,,    0.075
C,AM-241   ,NO ,   2.303E+01,   1.555E+01,   2.261E+01,,    1.019
```

Sec. Review: Analyst: LIMS: ___

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 12-JUN-2006 09:02:21.11
TBE04 P-40312B HpGe ********** Aquisition Date/Time: 11-JUN-2006 23:41:19.89

LIMS No., Customer Name, Client ID: WG L28846-3 EX TMI

Sample ID : 04L28846-3
Sample Type : WG
Quantity : 3.11670E+00 L
Start Channel : 90 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 31-MAY-2006 09:50:00.
Geometry : 043L082004
BKGFILE : 04BG060305MT
Real Time : 0 09:20:56.39
Live time : 0 09:20:50.66

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	5	63.57*	38	735	1.13	127.60	5.64E-01	1.13E-03	129.2	5.72E-01
2	5	66.37*	322	945	1.46	133.19	6.65E-01	9.55E-03	18.9	
3	4	87.36*	84	607	1.10	175.18	1.39E+00	2.48E-03	55.3	1.94E+00
4	1	92.83*	37	886	1.30	186.10	1.54E+00	1.09E-03	159.8	2.98E+00
5	1	139.72*	241	1013	1.30	279.88	2.04E+00	7.16E-03	27.1	3.89E+00
6	1	175.10	111	704	1.02	350.62	1.97E+00	3.29E-03	42.4	2.21E+00
7	1	185.58*	39	792	1.28	371.58	1.92E+00	1.17E-03	146.1	1.56E+00
8	1	198.40*	271	887	1.32	397.21	1.86E+00	8.06E-03	23.6	1.41E+00
9	1	295.34*	63	553	2.88	591.07	1.45E+00	1.87E-03	83.9	2.79E+00
10	1	500.58	76	237	1.68	1001.44	9.85E-01	2.25E-03	42.6	6.87E-01
11	1	596.41	181	189	2.47	1193.05	8.62E-01	5.38E-03	17.8	1.93E+00
12	1	911.68*	9	136	3.08	1823.34	6.21E-01	2.76E-04	295.6	1.18E+00
13	1	1120.63*	19	79	2.57	2241.05	5.27E-01	5.64E-04	124.5	1.37E+00
14	1	1173.80*	23	104	2.94	2347.33	5.08E-01	6.94E-04	113.8	1.30E+00
15	1	1378.60	29	55	1.65	2756.67	4.49E-01	8.58E-04	55.9	5.65E-01
16	1	1461.53*	1	80	2.34	2922.42	4.29E-01	2.06E-05	*****	1.41E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	1	10.67*	4.294E-01	3.902E-01	3.902E-01	8272.92
RA-226	186.21	39	3.28*	1.923E+00	1.609E+01	1.609E+01	292.19
AC-228	835.50	------	1.75	6.649E-01	------	Line Not Found	------
	911.07	9	27.70*	6.208E-01	1.393E+00	1.398E+00	591.28
U-235	143.76	------	10.50*	2.041E+00	------	Line Not Found	------
	163.35	------	4.70	2.007E+00	------	Line Not Found	------
	185.71	39	54.00	1.923E+00	9.774E-01	9.774E-01	292.19
	205.31	------	4.70	1.833E+00	------	Line Not Found	------

Nuclide Type: activation

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
CO-60	1173.22	23	100.00	5.083E-01	1.183E+00	1.188E+00	227.63

1332.49	------	100.00*	4.604E-01	------	Line Not Found ------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 04L28846-3 Acquisition date : 11-JUN-2006 23:41:19

Total number of lines in spectrum	16	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	4	25.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.902E-01	3.902E-01	322.8E-01	8272.92	
RA-226	1600.00Y	1.00	1.609E+01	1.609E+01	4.702E+01	292.19	
AC-228	5.75Y	1.00	1.393E+00	1.398E+00	8.269E+00	591.28	
U-235	7.04E+08Y	1.00	9.774E-01	9.774E-01	28.56E-01	292.19	K
			---	---			
	Total Activity :		1.885E+01	1.886E+01			

Nuclide Type : activation

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.00	1.183E+00	1.188E+00	2.705E+00	227.63	K
			---	---			
	Total Activity :		1.183E+00	1.188E+00			

Grand Total Activity : 2.004E+01 2.005E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 04L28846-3

Acquisition date : 11-JUN-2006 23:41:19

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	63.57	38	735	1.13	127.60	123	16	1.13E-03	****	5.64E-01	
5	66.37	322	945	1.46	133.19	123	16	9.55E-03	37.7	6.65E-01	
4	87.36	84	607	1.10	175.18	166	13	2.48E-03	****	1.39E+00	
1	92.83	37	886	1.30	186.10	182	9	1.09E-03	****	1.54E+00	
1	139.72	241	1013	1.30	279.88	274	11	7.16E-03	54.2	2.04E+00	
1	175.10	111	704	1.02	350.62	347	8	3.29E-03	84.7	1.97E+00	
1	198.40	271	887	1.32	397.21	391	12	8.06E-03	47.1	1.86E+00	
1	295.34	63	553	2.88	591.07	586	13	1.87E-03	****	1.45E+00	
1	500.58	76	237	1.68	1001.44	995	12	2.25E-03	85.2	9.85E-01	
1	596.41	181	189	2.47	1193.05	1188	14	5.38E-03	35.6	8.62E-01	
1	1120.63	19	79	2.57	2241.05	2233	15	5.64E-04	****	5.27E-01	
1	1378.60	29	55	1.65	2756.67	2753	12	8.58E-04	****	4.49E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	16	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	4	25.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.902E-01	3.902E-01	322.8E-01	8272.92	
RA-226	1600.00Y	1.00	1.609E+01	1.609E+01	4.702E+01	292.19	
AC-228	5.75Y	1.00	1.393E+00	1.398E+00	8.269E+00	591.28	
		Total Activity :	1.788E+01	1.788E+01			

Nuclide Type : activation

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.00	1.183E+00	1.188E+00	2.705E+00	227.63	
		Total Activity :	1.183E+00	1.188E+00			

Grand Total Activity : 1.906E+01 1.907E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	3.902E-01	3.228E+01	2.738E+01	0.000E+00	0.014
CO-60	1.188E+00	2.705E+00	3.402E+00	0.000E+00	0.349
RA-226	1.609E+01	4.702E+01	6.347E+01	0.000E+00	0.254
AC-228	1.398E+00	8.269E+00	1.008E+01	0.000E+00	0.139

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-4.283E-01		1.632E+01	2.695E+01	0.000E+00	-0.016
NA-24	2.123E-01		4.628E-01	Half-Life too short		
CR-51	-2.827E+01		1.959E+01	3.101E+01	0.000E+00	-0.912
MN-54	-1.877E-01		1.732E+00	2.812E+00	0.000E+00	-0.067
CO-57	-5.254E-02		1.585E+00	2.652E+00	0.000E+00	-0.020
CO-58	-8.919E-01		1.950E+00	3.122E+00	0.000E+00	-0.286
FE-59	8.765E-01		3.940E+00	6.522E+00	0.000E+00	0.134
ZN-65	7.495E+00		4.613E+00	7.104E+00	0.000E+00	1.055
SE-75	-9.132E-01		2.378E+00	3.922E+00	0.000E+00	-0.233
SR-85	1.958E+01		2.349E+00	4.624E+00	0.000E+00	4.234
Y-88	-5.630E-01		2.257E+00	3.626E+00	0.000E+00	-0.155
NB-94	-1.103E+00		1.704E+00	2.744E+00	0.000E+00	-0.402
NB-95	1.833E+00		1.890E+00	3.233E+00	0.000E+00	0.567
ZR-95	-3.097E+00		3.402E+00	5.367E+00	0.000E+00	-0.577
MO-99	2.372E+01		2.414E+02	3.992E+02	0.000E+00	0.059
RU-103	1.644E+00		2.497E+00	3.598E+00	0.000E+00	0.457
RU-106	1.345E+01		1.649E+01	2.765E+01	0.000E+00	0.486
AG-110m	-3.037E-01		1.718E+00	2.832E+00	0.000E+00	-0.107
SN-113	3.502E-01		2.390E+00	3.903E+00	0.000E+00	0.090
SB-124	-1.560E+01		3.098E+00	3.207E+00	0.000E+00	-4.865
SB-125	-2.942E+00		5.038E+00	8.238E+00	0.000E+00	-0.357
TE-129M	9.679E+00		2.455E+01	4.119E+01	0.000E+00	0.235
I-131	4.243E+00		4.820E+00	8.076E+00	0.000E+00	0.525
BA-133	1.711E+00		2.514E+00	4.187E+00	0.000E+00	0.409
CS-134	-2.326E+00		2.421E+00	3.160E+00	0.000E+00	-0.736
CS-136	5.076E-01		3.163E+00	5.206E+00	0.000E+00	0.098
CS-137	1.200E+00		1.861E+00	3.165E+00	0.000E+00	0.379
CE-139	-7.690E-02		1.665E+00	2.745E+00	0.000E+00	-0.028
BA-140	4.018E+00		1.132E+01	1.881E+01	0.000E+00	0.214
LA-140	3.040E+00		3.778E+00	6.572E+00	0.000E+00	0.463
CE-141	8.695E-01		3.934E+00	5.624E+00	0.000E+00	0.155
CE-144	-1.291E+01		1.426E+01	1.983E+01	0.000E+00	-0.651
EU-152	-2.131E+01		5.891E+00	8.709E+00	0.000E+00	-2.447
EU-154	2.192E+00		3.244E+00	5.496E+00	0.000E+00	0.399
TH-228	9.285E-01		3.371E+00	5.631E+00	0.000E+00	0.165
TH-232	1.393E+00	+	8.236E+00	1.193E+01	0.000E+00	0.117
U-235	8.050E+00		1.439E+01	2.039E+01	0.000E+00	0.395
U-238	1.028E+02		1.879E+02	3.182E+02	0.000E+00	0.323
AM-241	6.539E+00		1.851E+01	2.669E+01	0.000E+00	0.245

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A,04L28846-3        ,06/12/2006 09:02,05/31/2006 09:50,   3.117E+00,WG L28846-3 EX
B,04L28846-3        ,LIBD                   ,06/02/2006 09:04,043L082004
C,K-40     ,YES,    3.902E-01,   3.228E+01,   2.738E+01,,    0.014
C,CO-60    ,YES,    1.188E+00,   2.705E+00,   3.402E+00,,    0.349
C,RA-226   ,YES,    1.609E+01,   4.702E+01,   6.347E+01,,    0.254
C,AC-228   ,YES,    1.398E+00,   8.269E+00,   1.008E+01,,    0.139
C,BE-7     ,NO ,   -4.283E-01,   1.632E+01,   2.695E+01,,   -0.016
C,CR-51    ,NO ,   -2.827E+01,   1.959E+01,   3.101E+01,,   -0.912
C,MN-54    ,NO ,   -1.877E-01,   1.732E+00,   2.812E+00,,   -0.067
C,CO-57    ,NO ,   -5.254E-02,   1.585E+00,   2.652E+00,,   -0.020
C,CO-58    ,NO ,   -8.919E-01,   1.950E+00,   3.122E+00,,   -0.286
C,FE-59    ,NO ,    8.765E-01,   3.940E+00,   6.522E+00,,    0.134
C,ZN-65    ,NO ,    7.495E+00,   4.613E+00,   7.104E+00,,    1.055
C,SE-75    ,NO ,   -9.132E-01,   2.378E+00,   3.922E+00,,   -0.233
C,SR-85    ,NO ,    1.958E+01,   2.349E+00,   4.624E+00,,    4.234
C,Y-88     ,NO ,   -5.630E-01,   2.257E+00,   3.626E+00,,   -0.155
C,NB-94    ,NO ,   -1.103E+00,   1.704E+00,   2.744E+00,,   -0.402
C,NB-95    ,NO ,    1.833E+00,   1.890E+00,   3.233E+00,,    0.567
C,ZR-95    ,NO ,   -3.097E+00,   3.402E+00,   5.367E+00,,   -0.577
C,MO-99    ,NO ,    2.372E+01,   2.414E+02,   3.992E+02,,    0.059
C,RU-103   ,NO ,    1.644E+00,   2.497E+00,   3.598E+00,,    0.457
C,RU-106   ,NO ,    1.345E+01,   1.649E+01,   2.765E+01,,    0.486
C,AG-110m  ,NO ,   -3.037E-01,   1.718E+00,   2.832E+00,,   -0.107
C,SN-113   ,NO ,    3.502E-01,   2.390E+00,   3.903E+00,,    0.090
C,SB-124   ,NO ,   -1.560E+01,   3.098E+00,   3.207E+00,,   -4.865
C,SB-125   ,NO ,   -2.942E+00,   5.038E+00,   8.238E+00,,   -0.357
C,TE-129M  ,NO ,    9.679E+00,   2.455E+01,   4.119E+01,,    0.235
C,I-131    ,NO ,    4.243E+00,   4.820E+00,   8.076E+00,,    0.525
C,BA-133   ,NO ,    1.711E+00,   2.514E+00,   4.187E+00,,    0.409
C,CS-134   ,NO ,   -2.326E+00,   2.421E+00,   3.160E+00,,   -0.736
C,CS-136   ,NO ,    5.076E-01,   3.163E+00,   5.206E+00,,    0.098
C,CS-137   ,NO ,    1.200E+00,   1.861E+00,   3.165E+00,,    0.379
C,CE-139   ,NO ,   -7.690E-02,   1.665E+00,   2.745E+00,,   -0.028
C,BA-140   ,NO ,    4.018E+00,   1.132E+01,   1.881E+01,,    0.214
C,LA-140   ,NO ,    3.040E+00,   3.778E+00,   6.572E+00,,    0.463
C,CE-141   ,NO ,    8.695E-01,   3.934E+00,   5.624E+00,,    0.155
C,CE-144   ,NO ,   -1.291E+01,   1.426E+01,   1.983E+01,,   -0.651
C,EU-152   ,NO ,   -2.131E+01,   5.891E+00,   8.709E+00,,   -2.447
C,EU-154   ,NO ,    2.192E+00,   3.244E+00,   5.496E+00,,    0.399
C,TH-228   ,NO ,    9.285E-01,   3.371E+00,   5.631E+00,,    0.165
C,TH-232   ,NO ,    1.393E+00,   8.236E+00,   1.193E+01,,    0.117
C,U-235    ,NO ,    8.050E+00,   1.439E+01,   2.039E+01,,    0.395
C,U-238    ,NO ,    1.028E+02,   1.879E+02,   3.182E+02,,    0.323
C,AM-241   ,NO ,    6.539E+00,   1.851E+01,   2.669E+01,,    0.245
```

Sec. Review: Analyst: LIMS: ___

==========

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 12-JUN-2006 09:04:39.43
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 11-JUN-2006 23:41:24.57

LIMS No., Customer Name, Client ID: WG L28846-4 EX TMI

Sample ID : 07L28846-4
Sample Type : WG
Quantity : 3.02380E+00 L
Start Channel : 40 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 31-MAY-2006 09:55:00.
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 09:23:07.58
Live time : 0 09:23:01.04

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	53.47	166	669	1.63	107.50	3.37E-01	4.91E-03	27.9	1.99E+00
2	1	65.03	1015	1519	3.67	130.62	7.54E-01	3.01E-02	8.5	2.66E+01
3	1	139.92*	368	992	1.29	280.53	2.36E+00	1.09E-02	18.7	1.46E+00
4	1	175.14	165	708	1.67	351.02	2.33E+00	4.87E-03	28.9	1.01E+00
5	1	198.36*	325	835	1.32	397.50	2.25E+00	9.62E-03	19.8	9.22E+00
6	1	238.52*	121	698	1.85	477.86	2.06E+00	3.59E-03	49.0	3.95E+00
7	1	295.10*	133	374	1.24	591.09	1.81E+00	3.94E-03	30.7	2.37E+00
8	1	596.10	146	351	1.89	1193.37	1.10E+00	4.32E-03	28.7	1.77E+00
9	1	609.43*	182	352	1.70	1220.04	1.09E+00	5.40E-03	27.1	1.48E+00
10	1	1240.04	196	164	15.01	2481.25	6.54E-01	5.81E-03	20.3	1.90E+00
11	1	1461.20*	75	112	2.65	2923.40	5.83E-01	2.22E-03	49.0	1.25E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	75	10.67*	5.826E-01	3.188E+01	3.188E+01	97.97
TH-228	238.63	121	44.60*	2.058E+00	3.493E+00	3.534E+00	97.97
	240.98	------	3.95	2.047E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 07L28846-4
Acquisition date : 11-JUN-2006 23:41:24

Total number of lines in spectrum	11	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	2	18.18%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.188E+01	3.188E+01	3.123E+01	97.97	
TH-228	1.91Y	1.01	3.493E+00	3.534E+00	3.462E+00	97.97	
			---	---			
Total Activity :			3.537E+01	3.541E+01			
Grand Total Activity :			3.537E+01	3.541E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 07L28846-4

Acquisition date : 11-JUN-2006 23:41:24

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	53.47	166	669	1.63	107.50	104	8	4.91E-03	55.8	3.37E-01	
1	65.03	1015	1519	3.67	130.62	124	14	3.01E-02	16.9	7.54E-01	
1	139.92	368	992	1.29	280.53	276	10	1.09E-02	37.4	2.36E+00	
1	175.14	165	708	1.67	351.02	347	8	4.87E-03	57.8	2.33E+00	
1	198.36	325	835	1.32	397.50	392	10	9.62E-03	39.6	2.25E+00	
1	295.10	133	374	1.24	591.09	588	7	3.94E-03	61.5	1.81E+00	
1	596.10	146	351	1.89	1193.37	1187	14	4.32E-03	57.4	1.10E+00	
1	609.43	182	352	1.70	1220.04	1212	15	5.40E-03	54.3	1.09E+00	
1	1240.04	196	164	15.01	2481.25	2470	31	5.81E-03	40.6	6.54E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	11	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	2	18.18%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.188E+01	3.188E+01	3.123E+01	97.97	
TH-228	1.91Y	1.01	3.493E+00	3.534E+00	3.462E+00	97.97	
			---	---			
	Total Activity :		3.537E+01	3.541E+01			

Grand Total Activity : 3.537E+01 3.541E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	3.188E+01	3.123E+01	2.455E+01	0.000E+00	1.298
TH-228	3.534E+00	3.462E+00	4.609E+00	0.000E+00	0.767

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA

BE-7	6.068E+00	1.528E+01	2.518E+01	0.000E+00	0.241
NA-24	-6.537E-01	4.000E-01	Half-Life too short		
CR-51	-4.379E+00	1.734E+01	2.870E+01	0.000E+00	-0.153
MN-54	-5.904E-01	1.627E+00	2.651E+00	0.000E+00	-0.223
CO-57	1.534E-01	1.589E+00	2.602E+00	0.000E+00	0.059
CO-58	-3.588E-01	1.779E+00	2.924E+00	0.000E+00	-0.123
FE-59	2.488E+00	3.440E+00	5.878E+00	0.000E+00	0.423
CO-60	-2.204E-01	1.591E+00	2.579E+00	0.000E+00	-0.085
ZN-65	2.316E+00	3.338E+00	5.692E+00	0.000E+00	0.407
SE-75	-2.227E+00	2.275E+00	3.634E+00	0.000E+00	-0.613
SR-85	1.961E+01	2.199E+00	4.299E+00	0.000E+00	4.562
Y-88	1.177E-01	1.827E+00	3.037E+00	0.000E+00	0.039
NB-94	7.869E-02	1.596E+00	2.609E+00	0.000E+00	0.030
NB-95	2.135E+00	1.757E+00	3.043E+00	0.000E+00	0.701
ZR-95	-3.408E+00	3.092E+00	4.796E+00	0.000E+00	-0.711
MO-99	-1.480E+02	2.337E+02	3.709E+02	0.000E+00	-0.399
RU-103	9.764E-01	2.017E+00	3.324E+00	0.000E+00	0.294
RU-106	-4.552E+00	1.575E+01	2.495E+01	0.000E+00	-0.182
AG-110m	4.236E-01	1.610E+00	2.663E+00	0.000E+00	0.159
SN-113	9.661E-02	2.177E+00	3.590E+00	0.000E+00	0.027
SB-124	-1.463E+00	4.419E+00	2.979E+00	0.000E+00	-0.491
SB-125	3.195E-01	4.566E+00	7.498E+00	0.000E+00	0.043
TE-129M	7.072E+00	2.227E+01	3.669E+01	0.000E+00	0.193
I-131	1.947E+00	4.327E+00	7.238E+00	0.000E+00	0.269
BA-133	5.615E+00	2.275E+00	3.981E+00	0.000E+00	1.410
CS-134	5.706E+00	3.732E+00	3.117E+00	0.000E+00	1.831
CS-136	-1.263E-01	2.904E+00	4.797E+00	0.000E+00	-0.026
CS-137	1.610E+00	1.686E+00	2.858E+00	0.000E+00	0.563
CE-139	6.113E-01	1.689E+00	2.744E+00	0.000E+00	0.223
BA-140	4.116E+00	1.043E+01	1.752E+01	0.000E+00	0.235
LA-140	9.861E-01	3.253E+00	5.441E+00	0.000E+00	0.181
CE-141	4.993E-01	3.965E+00	5.488E+00	0.000E+00	0.091
CE-144	-1.826E+00	1.425E+01	1.967E+01	0.000E+00	-0.093
EU-152	-2.122E+01	5.207E+00	7.795E+00	0.000E+00	-2.723
EU-154	9.850E-01	3.268E+00	5.369E+00	0.000E+00	0.183
RA-226	2.210E+01	4.270E+01	6.711E+01	0.000E+00	0.329
AC-228	-1.333E+00	7.051E+00	1.019E+01	0.000E+00	-0.131
TH-232	-1.328E+00	7.024E+00	1.015E+01	0.000E+00	-0.131
U-235	2.716E+01	1.425E+01	2.066E+01	0.000E+00	1.314
U-238	-8.845E+01	1.723E+02	2.746E+02	0.000E+00	-0.322
AM-241	9.960E+00	2.663E+01	2.318E+01	0.000E+00	0.430

A,07L28846-4 ,06/12/2006 09:04,05/31/2006 09:55, 3.024E+00,WG L28846-4 EX
B,07L28846-4 ,LIBD ,06/07/2006 09:32,073L082504

C,K-40	,YES,	3.188E+01,	3.123E+01,	2.455E+01,,	1.298
C,TH-228	,YES,	3.534E+00,	3.462E+00,	4.609E+00,,	0.767
C,BE-7	,NO ,	6.068E+00,	1.528E+01,	2.518E+01,,	0.241
C,CR-51	,NO ,	-4.379E+00,	1.734E+01,	2.870E+01,,	-0.153
C,MN-54	,NO ,	-5.904E-01,	1.627E+00,	2.651E+00,,	-0.223
C,CO-57	,NO ,	1.534E-01,	1.589E+00,	2.602E+00,,	0.059
C,CO-58	,NO ,	-3.588E-01,	1.779E+00,	2.924E+00,,	-0.123
C,FE-59	,NO ,	2.488E+00,	3.440E+00,	5.878E+00,,	0.423
C,CO-60	,NO ,	-2.204E-01,	1.591E+00,	2.579E+00,,	-0.085
C,ZN-65	,NO ,	2.316E+00,	3.338E+00,	5.692E+00,,	0.407
C,SE-75	,NO ,	-2.227E+00,	2.275E+00,	3.634E+00,,	-0.613
C,SR-85	,NO ,	1.961E+01,	2.199E+00,	4.299E+00,,	4.562
C,Y-88	,NO ,	1.177E-01,	1.827E+00,	3.037E+00,,	0.039
C,NB-94	,NO ,	7.869E-02,	1.596E+00,	2.609E+00,,	0.030
C,NB-95	,NO ,	2.135E+00,	1.757E+00,	3.043E+00,,	0.701
C,ZR-95	,NO ,	-3.408E+00,	3.092E+00,	4.796E+00,,	-0.711
C,MO-99	,NO ,	-1.480E+02,	2.337E+02,	3.709E+02,,	-0.399
C,RU-103	,NO ,	9.764E-01,	2.017E+00,	3.324E+00,,	0.294
C,RU-106	,NO ,	-4.552E+00,	1.575E+01,	2.495E+01,,	-0.182
C,AG-110m	,NO ,	4.236E-01,	1.610E+00,	2.663E+00,,	0.159
C,SN-113	,NO ,	9.661E-02,	2.177E+00,	3.590E+00,,	0.027
C,SB-124	,NO ,	-1.463E+00,	4.419E+00,	2.979E+00,,	-0.491
C,SB-125	,NO ,	3.195E-01,	4.566E+00,	7.498E+00,,	0.043
C,TE-129M	,NO ,	7.072E+00,	2.227E+01,	3.669E+01,,	0.193
C,I-131	,NO ,	1.947E+00,	4.327E+00,	7.238E+00,,	0.269
C,BA-133	,NO ,	5.615E+00,	2.275E+00,	3.981E+00,,	1.410
C,CS-134	,NO ,	5.706E+00,	3.732E+00,	3.117E+00,,	1.831
C,CS-136	,NO ,	-1.263E-01,	2.904E+00,	4.797E+00,,	-0.026
C,CS-137	,NO ,	1.610E+00,	1.686E+00,	2.858E+00,,	0.563
C,CE-139	,NO ,	6.113E-01,	1.689E+00,	2.744E+00,,	0.223
C,BA-140	,NO ,	4.116E+00,	1.043E+01,	1.752E+01,,	0.235
C,LA-140	,NO ,	9.861E-01,	3.253E+00,	5.441E+00,,	0.181
C,CE-141	,NO ,	4.993E-01,	3.965E+00,	5.488E+00,,	0.091
C,CE-144	,NO ,	-1.826E+00,	1.425E+01,	1.967E+01,,	-0.093
C,EU-152	,NO ,	-2.122E+01,	5.207E+00,	7.795E+00,,	-2.723
C,EU-154	,NO ,	9.850E-01,	3.268E+00,	5.369E+00,,	0.183
C,RA-226	,NO ,	2.210E+01,	4.270E+01,	6.711E+01,,	0.329
C,AC-228	,NO ,	-1.333E+00,	7.051E+00,	1.019E+01,,	-0.131
C,TH-232	,NO ,	-1.328E+00,	7.024E+00,	1.015E+01,,	-0.131
C,U-235	,NO ,	2.716E+01,	1.425E+01,	2.066E+01,,	1.314
C,U-238	,NO ,	-8.845E+01,	1.723E+02,	2.746E+02,,	-0.322
C,AM-241	,NO ,	9.960E+00,	2.663E+01,	2.318E+01,,	0.430

TELEDYNE
BROWN ENGINEERING
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931
865-690-6819 (Phone)

Work Order #: L28841

Exelon

June 20, 2006

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville CT 06062

Case Narrative - L28841
EX001-3ESPTMI-06

06/20/2006 16:14

Sample Receipt

The following samples were received on June 5, 2006 in good condition, unless otherwise noted.

CRA submitted revised COCs on 6/8/06
TBE corrected client IDs per CRA instructions 6/15/06

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-MS-19-053106-JAS-017	L28841-1	
WG-TMI-6D-053106-EV-018	L28841-2	
WG-TMI-1D-060106-JC-021	L28841-3	
WG-TMI-OSF-053006-JC-008	L28841-4	
WG-TMI-48S-053106-JC-013	L28841-5	
WG-TMI-NW-A-053006-JC-005	L28841-6	
WG-TMI-OS-18-053106-MM-014	L28841-7	
WG-TMI-MW-4I-060106-JAS-020	L28841-8	
WG-TMI-UST-053106-JC-016	L28841-9	
WG-TMI-MW-10I-060106-JAS-005	L28841-10	
WG-TMI-MW-2D-060106-EV-027	L28841-11	
WG-TMI-MW-6I-053106-JC-019	L28841-12	

Analytical Method Cross Reference Table

Radiological Parameter	TBE Knoxville Method	Reference Method
Gamma Spectrometry	TBE-2007	EPA 901.1
H-3	TBE-2010	EPA 906.0
TOTAL SR	TBE-2018	EPA 905.0

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L28841
EX001-3ESPTMI-06

06/20/2006 16:14

Gamma Spectroscopy

Quality Control

Quality control samples were analyzed as WG4117.

Duplicate Sample

Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-TMI-MS-19-053106-JAS-017	L28841-1	WG4117-1

H-3

Quality Control

Quality control samples were analyzed as WG4110,WG4115.

Method Blank

All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample

All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample

Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-TMI-1D-060106-JC-021	L28841-3	WG4115-3
WG-TMI-MS-7-053106-JAS-015	L28846-1	WG4110-3

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L28841
EX001-3ESPTMI-06

06/20/2006 16:14

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4158.

Method Blank
All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample
All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-TMI-MS-19-053106-JAS-017	L28841-1	WG4158-3

Certification

This is to certify that Teledyne Brown Engineering - Environmental Services, located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

Keith Jeter
Operations Manager

Sample Receipt Summary

06/07/06 10:00

SR #: SR08723

Client: Exelon

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

Project #: EX001-3ESPTMI-06 LIMS #: L28841

Initiated By: BWILKERSON
Init Date: 06/06/06 Receive Date: 06/05/06

Notification of Variance

Person Notified: Contacted By:
Notify Date:
Notify Method:
Notify Comment:

Client Response

Person Responding:
Response Date:
Response Method:
Response Comment

	Criteria	Yes No NA	Comment
1	Shipping container custody seals present and intact.	NA	
2	Sample container custody seals present and intact.	NA	
3	Sample containers received in good condition	Y	
4	Chain of custody received with samples	Y	
5	All samples listed on chain of custody received	Y	
6	Sample container labels present and legible.	Y	
7	Information on container labels correspond with chain of custody	Y	
8	Sample(s) properly preserved and in appropriate container(s)	Y	Ph at or below 2
9	Other (Describe)	NA	

L28841

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

GM ENVIRONMENTAL

PAGE OF

ID # № 03020

SSOW Ref. Code:

Required Client Information:

Company: CRA	Report To:
Address:	Copy To:
	Invoice To:
	P.O.:
Phone:	Project Name:
Fax:	Project Number:
E-mail:	

Laboratory: TELEDYNE BROWN	
Laboratory Location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

Analysis and Method: TRITIUM; STRONTIUM 89 / 90; GAMMA 137-TA

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Remarks/Lab ID
1. WG-TMI-05-18-053106-MM-014	WG	053106	1420	2	X			X			
2. WG-TMI-MW-4I-060106-JRS-020	WG	060106	1215	2	X			X			
3. WG-TMI-OST-053106-JC-016	WG	053106	1620	2	X			X			
4.											
5.											
6.											
7.											
8.											
9.											
10.											
11.											
12.											
13.											
14.											
15.											

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDX	1	[signature] CRA	02JUN06	1530	[signature]	6/2/06	1530
		[signature]	6/2/06	1531	Pat Marshall	6/5/06	1100
AIRBILL NO.							

Sampler Name: MARTIN MYLET FOX JOHN SKURAT MATT MILLER JASON

Sampler Signature: [signature] Date: 02JUN06

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6/04)

L 28841

REALM ENCORE

Jme 6/1/06

CHAIN-OF-CUSTODY / Analytical Request Document

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PAGE 1 OF 1

ID # № 03016

SSOW Ref. Code:

Required Client Information:

Company: CRA	Report To: Kathy Shaw
Address: 45 Farmington Valley Rd.	Copy To: Jeff Lambert
	Invoice To:
Plainville CT, 06062	P.O.:
Phone: 1 860-747-1800	Project Name: TMI-Exelon
Fax: 1 860-747-1880	Project Number: 45136-29
E-mail: KShaw@CRAworld.com	

Laboratory: Teledyne Brown	
Laboratory Location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Analysis and Method

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Tritium	Gamma Emitters	Strontium 89/90	Remarks/Lab ID
1. WG-TMI-DSE-053006-JL-008	WG	5/30/06	1815	2	1			1			X	X	X	20mls HNO3 added
2. WG-TMI-485-053106-JL-013	WG	5/31/06	1130	2	1			1			X	X	X	
3. WG-TMI-NW-A-053006-JL-005	WG	5/30/06	1615	2	1			1			X	X	X	
4.														CRA Contact: Kathy Shaw
5.														
6.														
7.														
8.														
9.														
10.														
11.														
12.														
13.														
14.														
15.														

TOTAL NUMBER OF CONTAINERS 6

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	1	J. McCleary / CRA	6/1/06	1610	[illegible]	6/6/06	1610
AIRBILL NO. 8484607605 34		Sweigart / [illegible]	6/1/06	1611	Pat Marshall	6/5/06	1100

Sampler Name: Jason Close

Sampler Signature: J. M. Close

Date: 6/1/06

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 010-041

L28841 8 OF 104

L28841

CHAIN-OF-CUSTODY / Analytical Request Document

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GM REALM ENCORE

PAGE 1 OF 1

ID # № 03018

SSOW Ref. Code:

Required Client Information:

Company: CRA	Report To:
Address:	Copy To:
TMI	Invoice To:
	P.O.:
Phone:	Project Name: TMI-EXELON
Fax:	Project Number:
E-mail:	

Laboratory: TELEDYNE BROWN	
Laboratory Location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	TRITIUM	STRONTIUM 89/90	GAMMA									Remarks/Lab ID
1.	WG-TMI-MW-10I-060106-JAS-005	WG	010606	1745	2	1			1			X	X	X									
2.	WG-TMI-MW-2D-060106-EV-077	WG	010606	1600	2	1			1			X	X	X									
3.	WG-TMI-MW-6I-053106-JC-019	WG	010606	1705	2	1			1			X	X	X									
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							
11.																							
12.																							
13.																							
14.																							
15.																							

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	1	[illegible] CRA	6/2/06	1530	Sergeant [illegible]	6/2/06	1530
AIRBILL NO. 848 460 760 501		Sergeant [illegible]	6/2/06	1531	Pat Marshall	6/5/06	1100

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: [illegible] MYLER FOX JOHNSRUDE GUAN JASON

Sampler Signature: [illegible] Date: 6/2/06

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6-04)

L28841

CHAIN-OF-CUSTODY / Analytical Request Document

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PAGE 1 OF 1

ID # № 03019

SSOW Ref. Code:

Required Client Information:

Company: CRA	Report To:
Address:	Copy To:
	Invoice To:
	P.O.:
Phone:	Project Name: TMI-BREUN
Fax:	Project Number: 045136-29
E-mail:	

Laboratory: THEODORE BROWN	
Laboratory Location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater; WB Borehole Water; WS Surface Water; SO Soil; SE Sediment; See Back for Additional Codes

Analysis and Method / Preservative

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	TRITIUM	STRONTIUM 90	GAMMA RESTA									Remarks/Lab ID
1.	WG-TMI-MS-19-053106-JRS-017	WG	053106	1855	2	1			1			X	X	X									
2.	WG-TMI-GD-053106-EV-018	WG	053106	1600	2	1			1			X	X	X									
3.	WG-TMI-1D-060106-JC-021	WG	053106	1120	2	1			1			X	X	X									
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							
11.																							
12.																							
13.																							
14.																							
15.																							
	TOTAL NUMBER OF CONTAINERS				6																		

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FED X	1	CRA	02JUN06	1525	Amergen	6/2/06	1525
AIRBILL NO.		Amergen	6/2/06	1526	Port Marshall	6/5/06	1100

MARTIN MYLET

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: BOB JOHN SKURAT EVAN

Sampler Signature: JASON

Date: 02JUN06

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 0 (6-04)

Charles, Rebecca

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Thursday, June 08, 2006 3:58 PM
To: Charles, Rebecca
Cc: Larry.Walton@exeloncorp.com
Subject: TMI COC revisions

Hi Rebecca,

There were a few sample ID corrections I made on the attached COCs. On one form the letter C was misinterpreted as an L, on another the dates were written in military time, the sample ID - 023 was added to the COC that had a missing ID and on another the date was wrong. The changes have been highlighted, please let me know if you have trouble reading the scanned forms.

thanks,

Kathy Shaw - Chemist

Conestoga-Rovers & Associates
45 Farmington Valley Drive
Plainville, Connecticut 06062
PH 860 747-1800
Fax 860 747-1900
CRAWORLD.COM

L28841
LIMS Corrected 6/8/06
RKO

L 28841

REVISED

CHAIN-OF-CUSTODY / Analytical Request Document

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PAGE 1 OF 1

ID # 03019

SSOW Ref. Code:

Required Client Information:

Company: CRA	Report To:
Address:	Copy To:
	Invoice To:
	P.O.:
Phone:	Project Name: TMI-DECON
Fax:	Project Number: 045136-29
E-mail:	

Laboratory: TELEDYNE BROWN	
Laboratory Location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater, WB Borehole Water, WS Surface Water, SO Soil, SE Sediment, See Back for Additional Codes

Analysis and Method

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other	Tritium	Strontium 89/90	Gamma Beta								Remarks/Lab ID
1. WG-TMI-MS-19-053106-JAS-017	WG	053106	1855	2	1			1			X	X	X								
2. WG-TMI-6D-053106-EV-018	WG	053106	1600	2	1			1			X	X	X								
3. WG-TMI-1D-[illegible]-JC-021	WG	053106	1120	2	1			1			X	X	X								
4.		060106																			
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
11.																					
12.																					
13.																					
14.																					
15.																					
TOTAL NUMBER OF CONTAINERS				6																	

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FED X	1	CRA	03 June	1525		6/2/06	1525
AIRBILL NO.			6/2/06	1526			

Sample Condition

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name:

Sampler Signature:

Date:

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

L28841

REVISED

CHAIN-OF-CUSTODY / Analytical Request Document

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GNCORE

PAGE 1 OF 1

ID# 03018

SSOW Rel. Code:

Required Client Information:

Company: CEG	Report To:
Address: TMI	Copy To:
	Invoice To:
	P.O.:
Phone:	Project Name: TMI-EXELON
Fax	Project Number:
E-mail:	

Laboratory: TELEDYNE BROWN	
Laboratory Location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

Valid Matrix Codes: WG Groundwater, WB Borehole Water, WS Surface Water, SO Soil, SE Sediment, See Back for Additional Codes

Analysis and Method

	Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Tritium	Tritium Filtered	Tritium Comment	Remarks Lab ID
1	WG-TMI-MW-10I-060106-JAS-005	WG	060106	1745	2	1			1						
2	WG-TMI-MW-2D-060106-EV-027	WG	060106	1600	2	1			1						
3	WG-TMI-MW-6I-[illegible]-JC-019	WG	060106	1705	2	1			1						
4			053106												
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															

TOTAL NUMBER OF CONTAINERS

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	1	[signature]	6/1/06	1530	[signature]	6/1/06	1530
AIREILL NO. 848 460 760 501		[signature]	6/1/06	1531			

Sample Condition

Temp in C	
Received on Ice	Y N
Sealed Cooler	Y N
Samples Intact	Y N

Additional Comments:

Sampler Name: [illegible]

Sampler Signature: [signature] Date: 6/1/06

Distribution WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV 11/04/

Charles, Rebecca

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Thursday, June 15, 2006 12:36 PM
To: Charles, Rebecca
Cc: Reid, James; Larry.Walton@exeloncorp.com; Lambert, Jeff; Ma, Jun
Subject: FW: Re: 45136-29 TMI lab data errors

Hi Rebecca,

The following is a list of sample naming errors were identified in Lab provided data:

WG-TMI-48S-053106-**JL**-013 should be WG-TMI-48S-053106-**JC**-013 L28841

WG-TMI-NW-A-053006-**JL**-005 which should be WG-TMI-NW-A-053006-**JC**-005 L28841

WG-TMI-OS-18-053106-MM-**O14** which should be WG-TMI-OS-18-053106-MM-**014** L28841

WG-TMI-OSF-053006-**JL**-008 which should be WG-TMI-OSF-053006-**JC**-008 ~~L28834~~ L28841

Please make these adjustments to your database and resubmit the revised reports.

Thank You,
Kathy Shaw

DONE

Not Reported yet.

Internal Chain of Custody

06/20/06 15:21

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L28841-1 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****

Sample # L28841-1 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28841-2 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****

Sample # L28841-2 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb

****

Sample # L28841-3 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO

06/20/06 15:21

Teledyne Brown Engineering
Internal Chain of Custody

****
Sample # L28841-3 Containernum 1

SR-90 (FAST) LCB

Relinquish Date	Relinquish By	Received By	
06/06/2006 00:00		099999	Sample Custodian
06/08/2006 14:03	099999 Sample Custodian	029709	Susan Ogletree

****
Sample # L28841-3 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By	Received By	
06/06/2006 00:00		099999	Sample Custodian
06/09/2006 15:37	099999 Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854 Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	030854 Donna Webb	099999	Sample Custodian
06/09/2006 15:38	029728 Lauren Larsen	030854	Donna Webb

****
Sample # L28841-4 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By	Received By	
06/06/2006 00:00		099999	Sample Custodian
06/08/2006 14:03	099999 Sample Custodian	029709	Susan Ogletree

****
Sample # L28841-4 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By	Received By	
06/06/2006 00:00		099999	Sample Custodian
06/09/2006 15:37	099999 Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854 Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	030854 Donna Webb	099999	Sample Custodian
06/09/2006 15:38	029728 Lauren Larsen	030854	Donna Webb

****
Sample # L28841-5 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By	Received By

06/20/06 15:21

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L28841-5 Containernum 1

Relinquish Date			Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****

Sample # L28841-5 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb

****

Sample # L28841-6 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****

Sample # L28841-6 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28841-7 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

06/20/06 15:21

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L28841-7 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb

****

Sample # L28841-8 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****

Sample # L28841-8 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb

****

Sample # L28841-9 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****

Sample # L28841-9 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO

06/20/06 15:21 Teledyne Brown Engineering
Internal Chain of Custody

****
Sample # L28841-9 Containernum 2

SR-90 (FAST) LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb

****
Sample # L28841-10 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****
Sample # L28841-10 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb

****
Sample # L28841-11 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****
Sample # L28841-11 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By

06/20/06 15:21

Teledyne Brown Engineering

Internal Chain of Custody

****

Sample # L28841-11 Containernum 2

Relinquish Date			Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28841-12 Containernum 1

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/08/2006 14:03	099999	Sample Custodian	029709	Susan Ogletree

****

Sample # L28841-12 Containernum 2

Prod	Analyst
GELI	DW
H-3	SO
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/06/2006 00:00			099999	Sample Custodian
06/09/2006 15:37	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:38	029728	Lauren Larsen	030854	Donna Webb
06/09/2006 15:38	030854	Donna Webb	099999	Sample Custodian

06/20/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28841

****

L28841-1 WG WG-TMI-MS-19-053106-JAS-017

Process step	Prod	Analyst	Date
Login		PMARSHALL	06/05/06
Aliquot	GELI	DW	06/09/06
Aliquot	H-3	SO	06/09/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	MVW	06/10/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	KOJ	06/19/06

****

L28841-2 WG WG-TMI-6D-053106-EV-018

Process step	Prod	Analyst	Date
Login		PMARSHALL	06/05/06
Aliquot	GELI	DW	06/09/06
Aliquot	H-3	SO	06/09/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/11/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	KOJ	06/19/06

****

L28841-3 WG WG-TMI-1D-060106-JC-021

Process step	Prod	Analyst	Date
Login		RCHARLES	06/05/06
Aliquot	GELI	DW	06/09/06
Aliquot	H-3	SO	06/09/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KOJ	06/11/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	KOJ	06/19/06

****

L28841-4 WG WG-TMI-OSF-053006-JC-008

Process step	Prod	Analyst	Date
Login		RCHARLES	06/05/06
Aliquot	GELI	DW	06/09/06
Aliquot	H-3	SO	06/09/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/11/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	KOJ	06/19/06

****

L28841-5 WG WG-TMI-48S-053106-JC-013

Process step	Prod	Analyst	Date
Login		RCHARLES	06/05/06
Aliquot	GELI	DW	06/09/06
Aliquot	H-3	SO	06/09/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/11/06

06/20/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28841

L28841-5	WG	WG-TMI-48S-053106-JC-013		
Count Room	H-3		KPW	06/12/06
Count Room	SR-90 (FAST)		KOJ	06/19/06

****

L28841-6	WG	WG-TMI-NW-A-053006-JC-005		
Process step	Prod		Analyst	Date
Login			RCHARLES	06/05/06
Aliquot	GELI		DW	06/09/06
Aliquot	H-3		SO	06/09/06
Aliquot	SR-90 (FAST)		LCB	06/14/06
Count Room	GELI		KPW	06/11/06
Count Room	H-3		KPW	06/12/06
Count Room	SR-90 (FAST)		KOJ	06/19/06

****

L28841-7	WG	WG-TMI-OS-18-053106-MM-014		
Process step	Prod		Analyst	Date
Login			RCHARLES	06/05/06
Aliquot	GELI		DW	06/09/06
Aliquot	H-3		SO	06/09/06
Aliquot	SR-90 (FAST)		LCB	06/14/06
Count Room	GELI		KPW	06/11/06
Count Room	H-3		KPW	06/12/06
Count Room	SR-90 (FAST)		KOJ	06/19/06

****

L28841-8	WG	WG-TMI-MW-4I-060106-JAS-020		
Process step	Prod		Analyst	Date
Login			PMARSHALL	06/05/06
Aliquot	GELI		DW	06/09/06
Aliquot	H-3		SO	06/09/06
Aliquot	SR-90 (FAST)		LCB	06/14/06
Count Room	GELI		MVW	06/11/06
Count Room	H-3		KPW	06/12/06
Count Room	SR-90 (FAST)		KOJ	06/19/06

****

L28841-9	WG	WG-TMI-UST-053106-JC-016		
Process step	Prod		Analyst	Date
Login			PMARSHALL	06/05/06
Aliquot	GELI		DW	06/09/06
Aliquot	H-3		SO	06/09/06
Aliquot	SR-90 (FAST)		LCB	06/14/06
Count Room	GELI		MVW	06/11/06
Count Room	H-3		KPW	06/12/06
Count Room	SR-90 (FAST)		KOJ	06/19/06

****

L28841-10	WG	WG-TMI-MW-10I-060106-JAS-005		
Process step	Prod		Analyst	Date
Login			PMARSHALL	06/05/06

06/20/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28841

L28841-10	WG	WG-TMI-MW-10I-060106-JAS-005		
Aliquot	GELI		DW	06/09/06
Aliquot	H-3		SO	06/09/06
Aliquot	SR-90	(FAST)	LCB	06/14/06
Count Room	GELI		MVW	06/11/06
Count Room	H-3		KPW	06/12/06
Count Room	SR-90	(FAST)	KOJ	06/19/06

****

L28841-11	WG	WG-TMI-MW-2D-060106-EV-027		
Process step	Prod		Analyst	Date
Login			PMARSHALL	06/05/06
Aliquot	GELI		DW	06/09/06
Aliquot	H-3		SO	06/09/06
Aliquot	SR-90	(FAST)	LCB	06/14/06
Count Room	GELI		MVW	06/11/06
Count Room	H-3		KPW	06/12/06
Count Room	SR-90	(FAST)	KOJ	06/19/06

****

L28841-12	WG	WG-TMI-MW-6I-053106-JC-019		
Process step	Prod		Analyst	Date
Login			RCHARLES	06/05/06
Aliquot	GELI		DW	06/09/06
Aliquot	H-3		SO	06/09/06
Aliquot	SR-90	(FAST)	LCB	06/14/06
Count Room	GELI		MVW	06/11/06
Count Room	H-3		KPW	06/12/06
Count Room	SR-90	(FAST)	KOJ	06/19/06

Analytical Results Summary

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: WG-TMI-MS-19-053106-JAS-017
Station:
Description:
LIMS Number: L28841-1

Collect Start: 05/31/2006 18:55
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**2.54E+02**	1.17E+02	1.63E+02	pCi/L		10	ml		06/11/06	60	M	+		
TOTAL SR	2018	-1.95E-02	8.62E-01	**1.76E+00**	pCi/L		450	ml	05/31/06 18:55	06/19/06	120	M	U		
MN-54	2007	-5.29E-01	2.53E+00	**4.13E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
CO-58	2007	-1.67E+00	2.74E+00	**4.38E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
FE-59	2007	-1.31E+00	5.38E+00	**8.77E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
CO-60	2007	1.02E+00	2.43E+00	**4.11E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
ZN-65	2007	5.46E+00	5.32E+00	**9.38E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
NB-95	2007	1.60E+00	2.63E+00	**4.51E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
ZR-95	2007	-2.12E+00	4.69E+00	**7.41E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U*	No	
CS-134	2007	9.88E+00	5.40E+00	**5.08E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
CS-137	2007	-1.13E+00	2.62E+00	**4.18E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
BA-140	2007	5.32E+00	1.47E+01	**2.48E+01**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	
LA-140	2007	2.85E+00	4.50E+00	**7.80E+00**	pCi/L		3027.64	ml	05/31/06 18:55	06/10/06	14400	Sec	U	No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery
*** indicates reportable value.**

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-6D-053106-EV-018**
Station:
Description:
LIMS Number: L28841-2

Collect Start: 05/31/2006 16:00
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**2.75E+02**	1.17E+02	1.61E+02	pCi/L		10	ml		06/11/06	60	M	+		
TOTAL SR	2018	5.64E-01	7.08E-01	**1.34E+00**	pCi/L		450	ml	05/31/06 16:00	06/19/06	120	M	U		
MN-54	2007	1.07E+00	2.58E+00	**4.32E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
CO-58	2007	7.68E-01	2.72E+00	**4.52E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
FE-59	2007	2.34E+00	5.85E+00	**9.84E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
CO-60	2007	1.67E+00	3.05E+00	**4.99E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
ZN-65	2007	-1.01E+00	5.65E+00	**9.12E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
NB-95	2007	-7.09E-01	2.68E+00	**4.33E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
ZR-95	2007	2.04E-02	4.56E+00	**7.50E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
CS-134	2007	4.97E+00	4.07E+00	**4.60E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
CS-137	2007	-6.51E-01	2.77E+00	**4.54E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
BA-140	2007	-5.24E+00	1.49E+01	**2.40E+01**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	
LA-140	2007	-8.48E-01	5.35E+00	**8.73E+00**	pCi/L		2961.01	ml	05/31/06 16:00	06/11/06	18000	Sec	U	No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: WG-TMI-1D-060106-JC-021
Station:
Description:
LIMS Number: L28841-3

Collect Start: 06/01/2006 11:20
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**4.40E+02**	1.27E+02	1.62E+02	pCi/L		10	ml		06/11/06	60	M	+		
TOTAL SR	2018	2.42E-01	5.05E-01	**9.87E-01**	pCi/L		450	ml	06/01/06 11:20	06/19/06	120	M	U		
K-40	2007	**1.69E+02**	4.26E+01	3.42E+01	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	+	Yes	
MN-54	2007	3.22E-01	2.03E+00	**3.34E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
CO-58	2007	-7.36E-01	2.33E+00	**3.77E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
FE-59	2007	4.79E+00	4.43E+00	**7.70E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
CO-60	2007	1.31E+00	2.07E+00	**3.52E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
ZN-65	2007	7.21E+00	5.32E+00	**8.10E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
NB-95	2007	3.63E+00	2.26E+00	**3.95E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
ZR-95	2007	-2.38E+00	3.97E+00	**6.37E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U*	No	
CS-134	2007	7.85E+00	3.97E+00	**4.05E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
CS-137	2007	-6.25E-01	2.22E+00	**3.63E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
BA-140	2007	3.85E+00	1.27E+01	**2.08E+01**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	
LA-140	2007	-2.94E-01	4.18E+00	**6.91E+00**	pCi/L		2959.51	ml	06/01/06 11:20	06/11/06	35313	Sec	U	No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery
— [illegible] indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-OSF-053006-JC-008**
Station:
Description:
LIMS Number: L28841-4

Collect Start: 05/30/2006 18:15
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3	2010	**4.24E+02**	1.24E+02	1.59E+02	pCi/L		10	ml		06/11/06	60	M	+			
TOTAL SR	2018	1.98E-01	5.88E-01	**1.16E+00**	pCi/L		450	ml	05/30/06 18:15	06/19/06	120	M	U			
MN-54	2007	1.84E+00	2.78E+00	**4.68E+00**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
CO-58	2007	1.55E+00	2.98E+00	**4.99E+00**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
FE-59	2007	-7.27E-01	6.03E+00	**9.80E+00**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
CO-60	2007	-3.42E+00	2.95E+00	**4.51E+00**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
ZN-65	2007	7.25E+00	7.23E+00	**1.07E+01**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
NB-95	2007	-1.10E+00	2.92E+00	**4.71E+00**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
ZR-95	2007	-1.55E+00	5.19E+00	**8.40E+00**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U*		No	
CS-134	2007	8.34E+00	5.52E+00	**5.35E+00**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
CS-137	2007	1.28E+00	2.94E+00	**4.95E+00**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
BA-140	2007	-2.76E+00	1.83E+01	**2.98E+01**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	
LA-140	2007	7.55E+00	5.55E+00	**1.00E+01**	pCi/L		2960.58	ml	05/30/06 18:15	06/11/06	22198	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: WG-TMI-48S-053106-JC-013
Station:
Description:
LIMS Number: L28841-5

Collect Start: 05/31/2006 11:30
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**2.23E+02**	1.16E+02	1.66E+02	pCi/L		10	ml		06/12/06	60	M	+		
TOTAL SR	2018	1.03E+00	6.65E-01	**1.17E+00**	pCi/L		450	ml	05/31/06 11:30	06/19/06	120	M	U		
MN-54	2007	3.47E-01	2.28E+00	**3.80E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
CO-58	2007	-3.20E-01	2.47E+00	**4.07E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
FE-59	2007	9.99E-01	4.78E+00	**8.02E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
CO-60	2007	-2.30E-02	2.33E+00	**3.80E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
ZN-65	2007	8.78E+00	5.17E+00	**9.31E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
NB-95	2007	2.55E+00	2.47E+00	**4.30E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
ZR-95	2007	-2.95E+00	4.36E+00	**6.81E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U*		No
CS-134	2007	1.06E+01	2.59E+00	**4.86E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
CS-137	2007	-4.84E-01	2.47E+00	**4.00E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
BA-140	2007	8.11E+00	1.37E+01	**2.33E+01**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No
LA-140	2007	-5.91E-02	4.50E+00	**7.39E+00**	pCi/L		2970.72	ml	05/31/06 11:30	06/11/06	18000	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/20/06 15:20

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-NW-A-053006-JC-005**
Station:
Description:
LIMS Number: L28841-6

Collect Start: 05/30/2006 16:15
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3	2010	**1.48E+03**	2.00E+02	1.87E+02	pCi/L		10	ml		06/12/06	45.02	M	+			
TOTAL SR	2018	3.89E-01	8.22E-01	**1.61E+00**	pCi/L		450	ml	05/30/06 16:15	06/19/06	120	M	U			
MN-54	2007	1.53E+00	2.48E+00	**4.20E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
CO-58	2007	-2.17E+00	2.67E+00	**4.17E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
FE-59	2007	4.79E+00	5.51E+00	**9.63E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
CO-60	2007	1.32E+00	2.67E+00	**4.54E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
ZN-65	2007	9.42E+00	6.39E+00	**1.01E+01**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
NB-95	2007	8.21E-01	2.77E+00	**4.63E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
ZR-95	2007	-4.21E-01	4.79E+00	**7.84E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U*		No	
CS-134	2007	1.03E+01	5.70E+00	**5.27E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
CS-137	2007	4.09E-01	2.83E+00	**4.71E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
BA-140	2007	9.70E+00	1.75E+01	**2.92E+01**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	
LA-140	2007	6.61E-01	5.32E+00	**8.92E+00**	pCi/L		3014.3	ml	05/30/06 16:15	06/11/06	21055	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: WG-TMI-OS-18-053106-MM-014
Station:
Description:
LIMS Number: L28841-7

Collect Start: 05/31/2006 14:20
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3	2010	**3.99E+02**	1.26E+02	1.65E+02	pCi/L		10	ml		06/12/06	60	M	+			
TOTAL SR	2018	4.17E-01	8.22E-01	**1.60E+00**	pCi/L		450	ml	05/31/06 14:20	06/19/06	120	M	U			
MN-54	2007	2.67E+00	2.36E+00	**4.29E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
CO-58	2007	-1.55E+00	2.56E+00	**4.26E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
FE-59	2007	1.47E+00	4.96E+00	**8.83E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
CO-60	2007	1.89E+00	2.45E+00	**4.49E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U*		No	
ZN-65	2007	1.06E+01	6.11E+00	**1.03E+01**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
NB-95	2007	5.02E-01	2.47E+00	**4.31E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
ZR-95	2007	4.45E+00	4.37E+00	**7.94E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
CS-134	2007	4.91E+00	4.19E+00	**5.06E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
CS-137	2007	1.90E+00	2.56E+00	**4.58E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
BA-140	2007	1.55E+01	1.54E+01	**2.72E+01**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	
LA-140	2007	1.04E+00	5.03E+00	**9.01E+00**	pCi/L		3037.51	ml	05/31/06 14:20	06/11/06	18000	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: WG-TMI-MW-4I-060106-JAS-020
Station:
Description:
LIMS Number: L28841-8

Collect Start: 06/01/2006 11:15
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**2.36E+02**	1.14E+02	1.61E+02	pCi/L		10	ml		06/12/06	60	M	+		
TOTAL SR	2018	7.26E-01	7.47E-01	**1.40E+00**	pCi/L		450	ml	06/01/06 11:15	06/19/06	120	M	U		
MN-54	2007	-7.13E-01	2.17E+00	**3.48E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
CO-58	2007	-2.01E+00	2.37E+00	**3.69E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
FE-59	2007	3.78E+00	4.91E+00	**8.39E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
CO-60	2007	-4.61E-01	2.65E+00	**4.38E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
ZN-65	2007	2.44E+00	5.01E+00	**8.41E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
NB-95	2007	1.60E+00	2.31E+00	**3.93E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
ZR-95	2007	-2.39E+00	4.17E+00	**6.65E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
CS-134	2007	2.96E+00	5.00E+00	**3.95E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
CS-137	2007	1.42E+00	2.30E+00	**3.93E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
BA-140	2007	-1.84E+00	1.27E+01	**2.07E+01**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No
LA-140	2007	5.14E+00	4.34E+00	**7.81E+00**	pCi/L		3055.83	ml	06/01/06 11:15	06/11/06	23831	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
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U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Report of Analysis

06/20/06 15:20

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-UST-053106-JC-016**
Station:
Description:
LIMS Number: L28841-9

Collect Start: 05/30/2006 16:20
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	3.72E+01	9.54E+01	**1.53E+02**	pCi/L		10	ml		06/12/06	60	M	U		
TOTAL SR	2018	8.65E-01	7.11E-01	**1.29E+00**	pCi/L		450	ml	05/30/06 16:20	06/19/06	120	M	U		
MN-54	2007	8.05E-01	1.90E+00	**3.20E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
CO-58	2007	-6.02E-01	2.10E+00	**3.43E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
FE-59	2007	2.76E+00	4.21E+00	**7.20E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
CO-60	2007	1.28E+00	1.87E+00	**3.20E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
ZN-65	2007	4.48E+00	4.19E+00	**7.29E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
NB-95	2007	9.49E-01	2.09E+00	**3.53E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
ZR-95	2007	-1.09E+00	3.92E+00	**6.28E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
CS-134	2007	5.95E+00	3.31E+00	**3.71E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U*		No
CS-137	2007	-5.95E-03	2.06E+00	**3.38E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
BA-140	2007	2.65E+00	1.27E+01	**2.13E+01**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No
LA-140	2007	5.32E+00	4.22E+00	**7.48E+00**	pCi/L		2995.29	ml	05/30/06 16:20	06/11/06	23992	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-MW-10I-060106-JAS-005**
Station:
Description:
LIMS Number: L28841-10

Collect Start: 06/01/2006 17:45
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**1.35E+04**	1.39E+03	4.96E+02	pCi/L		10	ml		06/12/06	6.19	M	+	High	
TOTAL SR	2018	7.47E-01	6.70E-01	**1.23E+00**	pCi/L		450	ml	06/01/06 17:45	06/19/06	120	M	U		
MN-54	2007	5.72E-01	2.42E+00	**4.04E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
CO-58	2007	-2.46E-01	2.45E+00	**4.02E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
FE-59	2007	-2.45E+00	5.31E+00	**8.58E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
CO-60	2007	-6.48E-01	2.49E+00	**4.01E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
ZN-65	2007	6.51E+00	6.44E+00	**9.73E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
NB-95	2007	1.42E+00	2.50E+00	**4.25E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
ZR-95	2007	-2.63E+00	4.80E+00	**7.77E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
CS-134	2007	6.64E+00	5.42E+00	**4.55E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
CS-137	2007	1.48E+00	2.64E+00	**4.41E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
BA-140	2007	-3.05E+00	1.42E+01	**2.32E+01**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No
LA-140	2007	-5.37E-01	4.34E+00	**7.10E+00**	pCi/L		3067.71	ml	06/01/06 17:45	06/11/06	23922	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: WG-TMI-MW-2D-060106-EV-027
Station:
Description:
LIMS Number: L28841-11

Collect Start: 06/01/2006 16:00
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**9.54E+02**	1.53E+02	1.61E+02	pCi/L		10	ml		06/12/06	60	M	+		
TOTAL SR	2018	5.80E-01	8.63E-01	**1.65E+00**	pCi/L		450	ml	06/01/06 16:00	06/19/06	120	M	U		
MN-54	2007	1.17E+00	2.33E+00	**3.92E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
CO-58	2007	-1.91E+00	2.41E+00	**3.78E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
FE-59	2007	3.78E+00	5.01E+00	**8.65E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
CO-60	2007	-9.53E-01	2.43E+00	**3.87E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
ZN-65	2007	1.18E+01	5.99E+00	**9.70E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U*		No
NB-95	2007	3.33E-01	2.44E+00	**4.04E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
ZR-95	2007	4.19E+00	4.42E+00	**7.60E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
CS-134	2007	1.09E+00	3.23E+00	**4.60E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
CS-137	2007	1.55E+00	2.55E+00	**4.33E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
BA-140	2007	-4.37E+00	1.38E+01	**2.21E+01**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No
LA-140	2007	1.07E+00	4.71E+00	**7.95E+00**	pCi/L		3122.07	ml	06/01/06 16:00	06/11/06	23960	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery
[illegible] = Higher reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/20/06 15:20

L28841

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-MW-6I-053106-JC-019**
Station:
Description:
LIMS Number: L28841-12

Collect Start: 05/31/2006 17:05
Collect Stop:
Receive Date: 06/05/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**7.72E+02**	1.44E+02	1.61E+02	pCi/L		10	ml		06/12/06	60	M	+		
TOTAL SR	2018	6.90E-01	8.59E-01	**1.63E+00**	pCi/L		450	ml	05/31/06 17:05	06/19/06	120	M	U		
MN-54	2007	4.00E-01	2.64E+00	**4.17E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
CO-58	2007	-1.02E+00	2.72E+00	**4.37E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
FE-59	2007	2.87E+00	5.52E+00	**9.28E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
CO-60	2007	-1.24E+00	2.64E+00	**4.23E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
ZN-65	2007	6.10E+00	5.68E+00	**9.77E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
NB-95	2007	2.23E+00	2.65E+00	**4.51E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
ZR-95	2007	-1.12E+00	4.71E+00	**7.65E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
CS-134	2007	7.40E+00	5.37E+00	**5.08E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
CS-137	2007	8.00E-01	2.62E+00	**4.39E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
BA-140	2007	9.41E+00	1.63E+01	**2.73E+01**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No
LA-140	2007	2.07E+00	5.18E+00	**8.78E+00**	pCi/L		3095.59	ml	05/31/06 17:05	06/11/06	24000	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

QC Results Summary

QC Summary Report for L28841

6/20/2006 3:41:36PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

H-3

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4110-1	H-3	WO	06/11/2006 4:13	< 1.700E+00	pCi/Total	U	P
WG4115-1		WO	06/11/2006 18:14	< 1.640E+00	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4110-2	H-3	WO	06/11/2006 5:16	5.05E+002	4.930E+02	pCi/Total	97.7	70-130	+	P
Spike ID: 3H-041706-1 Spike conc: 5.05E+002 Spike Vol: 1.00E+000										
WG4115-2		WO	06/11/2006 19:17	5.05E+002	5.380E+02	pCi/Total	106.6	70-130	+	P
Spike ID: 3H-041706-1 Spike conc: 5.05E+002 Spike Vol: 1.00E+000										

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4110-3 L28846-1	H-3	WG	06/11/2006 5:35	3.050E+02	2.380E+02	pCi/L		<30	*	NE
WG4115-3 L28841-3		WG	06/11/2006 19:35	4.400E+02	3.140E+02	pCi/L		<30	*	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28841

6/20/2006 3:41:36PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28841 **H-3**

Associated Samples for **WG4110**

SAMPLENUM	CLIENTID
L28841-1	WG-TMI-MS-19-053106-JAS-017
L28841-2	WG-TMI-6D-053106-EV-018

Associated Samples for **WG4115**

SAMPLENUM	CLIENTID
L28841-3	WG-TMI-1D-060106-JC-021
L28841-4	WG-TMI-OSF-053006-JC-008
L28841-5	WG-TMI-48S-053106-JC-013
L28841-6	WG-TMI-NW-A-053006-JC-005
L28841-7	WG-TMI-OS-18-053106-MM-014
L28841-8	WG-TMI-MW-4I-060106-JAS-020
L28841-9	WG-TMI-UST-053106-JC-016
L28841-10	WG-TMI-MW-10I-060106-JAS-005
L28841-11	WG-TMI-MW-2D-060106-EV-027
L28841-12	WG-TMI-MW-6I-053106-JC-019

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28841

6/20/2006 3:41:36PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

TOTAL SR

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4158-1	TOTAL SR	WO	06/19/2006 18:17	< 7.280E-01	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4158-2	TOTAL SR	WO	06/19/2006 18:17	5.84E+001	6.590E+01	pCi/Total	112.9	70-130	+	P

Spike ID: 90SR-011905
Spike conc: 2.34E+002
Spike Vol: 2.50E-001

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4158-3 L28841-1	TOTAL SR	WG	06/19/2006 18:17	< 1.760E+00	< 1.780E+00	pCi/L		<30	**	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

Raw Data

Raw Data Sheet (rawdata)
Jun 20 2006, 03:35 pm

Work Order: L28841

Customer: Exelon

Nuclide: H-3

Project : EX001-3ESPTMI-06

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L28841-1 WG-TMI-MS-19-053106-JA		H-3		10 ml			0		11-jun-06 20:39	LS7	160	60	1.51	60	.204		SO
Activity: 2.54E+02 * Error: 1.17E+02				MDC: 1.63E+02													
L28841-2 WG-TMI-6D-053106-EV-01		H-3		10 ml			0		11-jun-06 21:43	LS7	166	60	1.51	60	.207		SO
Activity: 2.75E+02 * Error: 1.17E+02				MDC: 1.61E+02													
L28841-3 WG-TMI-1D-060106-JC-02		H-3		10 ml			0		11-jun-06 22:46	LS7	211	60	1.51	60	.206		SO
Activity: 4.4E+02 * Error: 1.27E+02				MDC: 1.62E+02													
L28841-4 WG-TMI-OSF-053006-JC-0		H-3		10 ml			0		11-jun-06 23:50	LS7	209	60	1.51	60	.21		SO
Activity: 4.24E+02 * Error: 1.24E+02				MDC: 1.59E+02													
L28841-5 WG-TMI-48S-053106-JC-0		H-3		10 ml			0		12-jun-06 00:53	LS7	150	60	1.51	60	.2		SO
Activity: 2.23E+02 * Error: 1.16E+02				MDC: 1.66E+02													
L28841-6 WG-TMI-NW-A-053006-JC-		H-3		10 ml			0		12-jun-06 01:57	LS7	372	45.02	1.51	60	.207		SO
Activity: 1.48E+03 * Error: 2E+02				MDC: 1.87E+02													
L28841-7 WG-TMI-OS-18-053106-MM		H-3		10 ml			0		12-jun-06 02:45	LS7	198	60	1.51	60	.203		SO
Activity: 3.99E+02 * Error: 1.26E+02				MDC: 1.65E+02													
L28841-8 WG-TMI-MW-4I-060106-JA		H-3		10 ml			0		12-jun-06 03:49	LS7	155	60	1.51	60	.207		SO
Activity: 2.36E+02 * Error: 1.14E+02				MDC: 1.61E+02													
L28841-9 WG-TMI-UST-053106-JC-0		H-3		10 ml			0		12-jun-06 04:53	LS7	101	60	1.51	60	.219		SO
Activity: 3.72E+01 Error: 9.54E+01				MDC: 1.53E+02 *													
L28841-10 WG-TMI-MW-10I-060106-J		H-3		10 ml			0		12-jun-06 05:56	LS7	398	6.19	1.51	60	.21		SO
Activity: 1.35E+04 * Error: 1.39E+03				MDC: 4.96E+02													
L28841-11 WG-TMI-MW-2D-060106-EV		H-3		10 ml			0		12-jun-06 06:06	LS7	353	60	1.51	60	.207		SO
Activity: 9.54E+02 * Error: 1.53E+02				MDC: 1.61E+02													
L28841-12 WG-TMI-MW-6I-053106-JC		H-3		10 ml			0		12-jun-06 07:10	LS7	303	60	1.51	60	.207		SO
Activity: 7.72E+02 * Error: 1.44E+02				MDC: 1.61E+02													

Raw Data Sheet (rawdata)
Jun 20 2006, 03:35 pm

Work Order: L28841 Customer: Exelon

Nuclide: SR-90 (FAST) Project : EX001-3ESPTMI-06

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L28841-1		TOTAL SR	31-may-06		19-jun-06		0		19-jun-06								
WG-TMI-MS-19-053106-JA			18:55	450 ml	13:00			60.22	18:17	Y2B	94	120	315	400	.356	.999	LCB
Activity: -1.95E-02	Error: 8.62E-01		MDC: 1.76E+00 *														
L28841-2		TOTAL SR	31-may-06		19-jun-06		0		19-jun-06								
WG-TMI-6D-053106-EV-01			16:00	450 ml	13:00			74.46	18:17	Y2C	98	120	268	400	.35	.999	LCB
Activity: 5.64E-01	Error: 7.08E-01		MDC: 1.34E+00 *														
L28841-3		TOTAL SR	01-jun-06		19-jun-06		0		19-jun-06								
WG-TMI-1D-060106-JC-02			11:20	450 ml	13:00			106.18	18:17	Y3A	98	120	291	400	.347	.999	LCB
Activity: 2.42E-01	Error: 5.05E-01		MDC: 9.87E-01 *														
L28841-4		TOTAL SR	30-may-06		19-jun-06		0		19-jun-06								
WG-TMI-OSF-053006-JC-0			18:15	450 ml	13:00			90.32	18:17	Y3B	95	120	292	400	.346	.999	LCB
Activity: 1.98E-01	Error: 5.88E-01		MDC: 1.16E+00 *														
L28841-5		TOTAL SR	31-may-06		19-jun-06		0		19-jun-06								
WG-TMI-48S-053106-JC-0			11:30	450 ml	13:00			84.14	18:17	Y3D	115	120	262	400	.352	.999	LCB
Activity: 1.03E+00	Error: 6.65E-01		MDC: 1.17E+00 *														
L28841-6		TOTAL SR	30-may-06		19-jun-06		0		19-jun-06								
WG-TMI-NW-A-053006-JC-			16:15	450 ml	13:00			71.24	19:45	X1B	114	120	342	400	.343	.999	LCB
Activity: 3.89E-01	Error: 8.22E-01		MDC: 1.61E+00 *														
L28841-7		TOTAL SR	31-may-06		19-jun-06		0		19-jun-06								
WG-TMI-OS-18-053106-MM			14:20	450 ml	13:00			63.98	19:45	X1C	98	120	289	400	.354	.999	LCB
Activity: 4.17E-01	Error: 8.22E-01		MDC: 1.6E+00 *														
L28841-8		TOTAL SR	01-jun-06		19-jun-06		0		19-jun-06								
WG-TMI-MW-4I-060106-JA			11:15	450 ml	13:00			78.23	19:45	X1D	117	120	312	400	.344	.999	LCB
Activity: 7.26E-01	Error: 7.47E-01		MDC: 1.4E+00 *														
L28841-9		TOTAL SR	30-may-06		19-jun-06		0		19-jun-06								
WG-TMI-UST-053106-JC-0			16:20	450 ml	13:00			75.81	19:45	X2A	107	120	264	400	.354	.999	LCB
Activity: 8.65E-01	Error: 7.11E-01		MDC: 1.29E+00 *														
L28841-10		TOTAL SR	01-jun-06		19-jun-06		0		19-jun-06								
WG-TMI-MW-10I-060106-J			17:45	450 ml	13:00			85.22	19:45	X2B	113	120	289	400	.345	.999	LCB
Activity: 7.47E-01	Error: 6.7E-01		MDC: 1.23E+00 *														
L28841-11		TOTAL SR	01-jun-06		19-jun-06		0		19-jun-06								
WG-TMI-MW-2D-060106-EV			16:00	450 ml	13:00			62.37	19:45	X2C	98	120	277	400	.344	.999	LCB
Activity: 5.8E-01	Error: 8.63E-01		MDC: 1.65E+00 *														
L28841-12		TOTAL SR	31-may-06		19-jun-06		0		19-jun-06								
WG-TMI-MW-6I-053106-JC			17:05	450 ml	13:00			66.67	19:45	X2D	111	120	307	400	.343	.999	LCB
Activity: 6.9E-01	Error: 8.59E-01		MDC: 1.63E+00 *														

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 09:03:59.86
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 10-JUN-2006 15:58:20.55

LIMS No., Customer Name, Client ID: WG L28841-1 TMI

Sample ID : 07L28841-1
Sample Type : WG
Quantity : 3.02760E+00 L
Start Channel : 40
End Channel : 4090
MDA Constant : 0.00

Energy Tol : 1.00000
Pk Srch Sens: 5.00000
Library Used: LIBD

Smple Date: 31-MAY-2006 18:55:00.
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 04:00:02.85
Live time : 0 04:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	144.03	57	228	1.15	288.74	2.37E+00	3.96E-03	44.3	1.77E+00
2	1	175.06	57	269	1.37	350.86	2.34E+00	3.94E-03	49.7	5.88E-01
3	1	199.22	296	422	4.33	399.22	2.24E+00	2.06E-02	14.1	1.34E+01
4	1	240.47	138	583	5.00	481.77	2.05E+00	9.58E-03	43.1	5.91E+00
5	1	351.74*	69	220	1.44	704.45	1.61E+00	4.79E-03	48.4	1.54E+00
6	1	596.25	89	120	1.75	1193.67	1.10E+00	6.20E-03	29.0	2.19E+00
7	1	609.39*	128	149	1.58	1219.95	1.09E+00	8.88E-03	24.7	1.19E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28841-1

Acquisition date : 10-JUN-2006 15:58:20

Total number of lines in spectrum	7	
Number of unidentified lines	5	
Number of lines tentatively identified by NID	2	28.57%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 07L28841-1

Acquisition date : 10-JUN-2006 15:58:20

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	144.03	57	228	1.15	288.74	286	6	3.96E-03	88.5	2.37E+00	T
1	175.06	57	269	1.37	350.86	348	7	3.94E-03	99.4	2.34E+00	
1	199.22	296	422	4.33	399.22	392	11	2.06E-02	28.1	2.24E+00	
1	240.47	138	583	5.00	481.77	472	19	9.58E-03	86.1	2.05E+00	T
1	351.74	69	220	1.44	704.45	700	11	4.79E-03	96.8	1.61E+00	
1	596.25	89	120	1.75	1193.67	1187	14	6.20E-03	58.1	1.10E+00	
1	609.39	128	149	1.58	1219.95	1213	15	8.88E-03	49.4	1.09E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 7
Number of unidentified lines 5
Number of lines tentatively identified by NID 2 28.57%
**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-6.464E+00		2.362E+01	3.797E+01	0.000E+00	-0.170
NA-24	-1.937E-01		8.293E-02	Half-Life too short		
K-40	2.286E+01		3.396E+01	6.174E+01	0.000E+00	0.370
CR-51	-1.060E+01		2.597E+01	4.263E+01	0.000E+00	-0.249
MN-54	-5.292E-01		2.531E+00	4.132E+00	0.000E+00	-0.128
CO-57	-1.519E+00		2.438E+00	3.916E+00	0.000E+00	-0.388
CO-58	-1.668E+00		2.737E+00	4.376E+00	0.000E+00	-0.381
FE-59	-1.314E+00		5.381E+00	8.770E+00	0.000E+00	-0.150
CO-60	1.017E+00		2.431E+00	4.108E+00	0.000E+00	0.248
ZN-65	5.462E+00		5.323E+00	9.379E+00	0.000E+00	0.582
SE-75	-2.722E+00		3.576E+00	5.692E+00	0.000E+00	-0.478
SR-85	2.144E+01		3.270E+00	6.513E+00	0.000E+00	3.29
Y-88	-7.745E-01		2.862E+00	4.620E+00	0.000E+00	-0.16
NB-94	-3.455E+00		2.585E+00	3.924E+00	0.000E+00	-0.88
NB-95	1.595E+00		2.626E+00	4.507E+00	0.000E+00	0.35
ZR-95	-2.123E+00		4.690E+00	7.406E+00	0.000E+00	-0.28
MO-99	1.410E+01		2.241E+02	3.658E+02	0.000E+00	0.03
RU-103	2.754E+00		2.889E+00	4.902E+00	0.000E+00	0.56
RU-106	7.593E+00		2.328E+01	3.894E+01	0.000E+00	0.19
AG-110m	2.568E-01		2.381E+00	3.926E+00	0.000E+00	0.06
SN-113	1.051E+00		3.364E+00	5.609E+00	0.000E+00	0.18

SB-124	2.943E+00	5.630E+00	4.413E+00	0.000E+00	0.667
SB-125	6.533E+00	7.345E+00	1.248E+01	0.000E+00	0.524
TE-129M	5.474E+00	3.201E+01	5.266E+01	0.000E+00	0.104
I-131	3.232E-01	5.996E+00	9.935E+00	0.000E+00	0.033
BA-133	6.036E+00	4.341E+00	6.515E+00	0.000E+00	0.926
CS-134	9.884E+00	5.400E+00	5.084E+00	0.000E+00	1.944
CS-136	-5.670E-01	3.932E+00	6.450E+00	0.000E+00	-0.088
CS-137	-1.131E+00	2.616E+00	4.182E+00	0.000E+00	-0.270
CE-139	2.567E-01	2.527E+00	4.161E+00	0.000E+00	0.062
BA-140	5.322E+00	1.469E+01	2.479E+01	0.000E+00	0.215
LA-140	2.854E+00	4.496E+00	7.801E+00	0.000E+00	0.366
CE-141	-2.980E+00	5.141E+00	8.209E+00	0.000E+00	-0.363
CE-144	-3.164E+01	1.934E+01	3.008E+01	0.000E+00	-1.052
EU-152	-4.066E+00	8.987E+00	1.231E+01	0.000E+00	-0.330
EU-154	-3.716E+00	5.068E+00	8.112E+00	0.000E+00	-0.458
RA-226	-2.958E+01	6.248E+01	1.018E+02	0.000E+00	-0.290
AC-228	-2.428E+00	1.024E+01	1.624E+01	0.000E+00	-0.150
TH-228	1.294E+00	5.628E+00	8.112E+00	0.000E+00	0.160
TH-232	-2.420E+00	1.021E+01	1.618E+01	0.000E+00	-0.150
U-235	1.421E+01	1.258E+01	3.103E+01	0.000E+00	0.458
U-238	2.127E+02	2.798E+02	4.786E+02	0.000E+00	0.444
AM-241	-3.467E+01	2.420E+01	3.737E+01	0.000E+00	-0.928

+

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A,07L28841-1        ,06/11/2006 09:04,05/31/2006 18:55,   3.028E+00,WG L28841-1 TM
B,07L28841-1        ,LIBD                   ,06/07/2006 09:32,073L082504
C,BE-7     ,NO ,  -6.464E+00,  2.362E+01,  3.797E+01,,   -0.170
C,K-40     ,NO ,   2.286E+01,  3.396E+01,  6.174E+01,,    0.370
C,CR-51    ,NO ,  -1.060E+01,  2.597E+01,  4.263E+01,,   -0.249
C,MN-54    ,NO ,  -5.292E-01,  2.531E+00,  4.132E+00,,   -0.128
C,CO-57    ,NO ,  -1.519E+00,  2.438E+00,  3.916E+00,,   -0.388
C,CO-58    ,NO ,  -1.668E+00,  2.737E+00,  4.376E+00,,   -0.381
C,FE-59    ,NO ,  -1.314E+00,  5.381E+00,  8.770E+00,,   -0.150
C,CO-60    ,NO ,   1.017E+00,  2.431E+00,  4.108E+00,,    0.248
C,ZN-65    ,NO ,   5.462E+00,  5.323E+00,  9.379E+00,,    0.582
C,SE-75    ,NO ,  -2.722E+00,  3.576E+00,  5.692E+00,,   -0.478
C,SR-85    ,NO ,   2.144E+01,  3.270E+00,  6.513E+00,,    3.292
C,Y-88     ,NO ,  -7.745E-01,  2.862E+00,  4.620E+00,,   -0.168
C,NB-94    ,NO ,  -3.455E+00,  2.585E+00,  3.924E+00,,   -0.881
C,NB-95    ,NO ,   1.595E+00,  2.626E+00,  4.507E+00,,    0.354
C,ZR-95    ,NO ,  -2.123E+00,  4.690E+00,  7.406E+00,,   -0.287
C,MO-99    ,NO ,   1.410E+01,  2.241E+02,  3.658E+02,,    0.039
C,RU-103   ,NO ,   2.754E+00,  2.889E+00,  4.902E+00,,    0.562
C,RU-106   ,NO ,   7.593E+00,  2.328E+01,  3.894E+01,,    0.195
C,AG-110m  ,NO ,   2.568E-01,  2.381E+00,  3.926E+00,,    0.065
C,SN-113   ,NO ,   1.051E+00,  3.364E+00,  5.609E+00,,    0.187
C,SB-124   ,NO ,   2.943E+00,  5.630E+00,  4.413E+00,,    0.667
C,SB-125   ,NO ,   6.533E+00,  7.345E+00,  1.248E+01,,    0.524
C,TE-129M  ,NO ,   5.474E+00,  3.201E+01,  5.266E+01,,    0.104
C,I-131    ,NO ,   3.232E-01,  5.996E+00,  9.935E+00,,    0.033
C,BA-133   ,NO ,   6.036E+00,  4.341E+00,  6.515E+00,,    0.926
C,CS-134   ,NO ,   9.884E+00,  5.400E+00,  5.084E+00,,    1.944
C,CS-136   ,NO ,  -5.670E-01,  3.932E+00,  6.450E+00,,   -0.088
C,CS-137   ,NO ,  -1.131E+00,  2.616E+00,  4.182E+00,,   -0.270
C,CE-139   ,NO ,   2.567E-01,  2.527E+00,  4.161E+00,,    0.062
C,BA-140   ,NO ,   5.322E+00,  1.469E+01,  2.479E+01,,    0.215
C,LA-140   ,NO ,   2.854E+00,  4.496E+00,  7.801E+00,,    0.366
C,CE-141   ,NO ,  -2.980E+00,  5.141E+00,  8.209E+00,,   -0.363
C,CE-144   ,NO ,  -3.164E+01,  1.934E+01,  3.008E+01,,   -1.052
C,EU-152   ,NO ,  -4.066E+00,  8.987E+00,  1.231E+01,,   -0.330
C,EU-154   ,NO ,  -3.716E+00,  5.068E+00,  8.112E+00,,   -0.458
C,RA-226   ,NO ,  -2.958E+01,  6.248E+01,  1.018E+02,,   -0.290
C,AC-228   ,NO ,  -2.428E+00,  1.024E+01,  1.624E+01,,   -0.150
C,TH-228   ,NO ,   1.294E+00,  5.628E+00,  8.112E+00,,    0.160
C,TH-232   ,NO ,  -2.420E+00,  1.021E+01,  1.618E+01,,   -0.150
C,U-235    ,NO ,   1.421E+01,  1.258E+01,  3.103E+01,,    0.458
C,U-238    ,NO ,   2.127E+02,  2.798E+02,  4.786E+02,,    0.444
C,AM-241   ,NO ,  -3.467E+01,  2.420E+01,  3.737E+01,,   -0.928
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 14:31:43.62
TBE04 P-40312B HpGe ********** Aquisition Date/Time: 11-JUN-2006 09:31:29.64

LIMS No., Customer Name, Client ID: WG L28841-2TMI

Sample ID : 04L28841-2
Sample Type : WG
Quantity : 2.96100E+00 L
Start Channel : 90
End Channel : 4090
MDA Constant : 0.00

Energy Tol : 1.00000
Pk Srch Sens: 5.00000
Library Used: LIBD

Smple Date: 31-MAY-2006 16:00:00.
Geometry : 043L082004
BKGFILE : 04BG060306MT
Real Time : 0 05:00:03.07
Live time : 0 05:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.54*	64	685	1.32	133.53	6.72E-01	3.55E-03	83.7	2.87E+00
2	1	140.00	126	475	1.33	280.44	2.04E+00	6.99E-03	32.5	1.51E+00
3	1	185.60*	38	278	1.46	371.62	1.92E+00	2.10E-03	91.3	1.28E+00
4	1	198.61*	46	466	1.16	397.64	1.86E+00	2.57E-03	103.0	1.68E+00
5	1	295.29	82	192	1.36	590.96	1.45E+00	4.53E-03	31.3	1.30E-01
6	1	583.02*	49	70	1.99	1166.28	8.77E-01	2.74E-03	40.5	1.48E+00
7	1	596.01	72	85	1.89	1192.25	8.63E-01	4.02E-03	26.6	1.01E+00
8	1	609.30*	70	97	1.45	1218.82	8.48E-01	3.88E-03	35.2	1.05E+00
9	1	1461.18*	5	20	2.21	2921.73	4.29E-01	2.71E-04	368.4	1.58E+00
10	1	1756.66	14	13	1.71	3512.25	3.78E-01	7.50E-04	59.6	9.87E-01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	5	10.67*	4.295E-01	5.392E+00	5.392E+00	736.78
RA-226	186.21	38	3.28*	1.923E+00	3.036E+01	3.036E+01	182.59
	143.76	------	10.50*	2.041E+00	------	Line Not Found	------
U-235	163.35	------	4.70	2.007E+00	------	Line Not Found	------
	185.71	38	54.00	1.923E+00	1.844E+00	1.844E+00	182.59
	205.31	------	4.70	1.833E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 04L28841-2

Acquisition date : 11-JUN-2006 09:31:29

Total number of lines in spectrum	10	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	3	30.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	5.392E+00	5.392E+00	39.73E+00	736.78	
RA-226	1600.00Y	1.00	3.036E+01	3.036E+01	5.543E+01	182.59	
U-235	7.04E+08Y	1.00	1.844E+00	1.844E+00	3.367E+00	182.59	K
			---	---			
Total Activity :			3.760E+01	3.760E+01			

Grand Total Activity : 3.760E+01 3.760E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 04L28841-2

Acquisition date : 11-JUN-2006 09:31:29

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.54	64	685	1.32	133.53	130	11	3.55E-03	****	6.72E-01	
1	140.00	126	475	1.33	280.44	276	9	6.99E-03	65.1	2.04E+00	
1	198.61	46	466	1.16	397.64	391	12	2.57E-03	****	1.86E+00	
1	295.29	82	192	1.36	590.96	588	8	4.53E-03	62.5	1.45E+00	
1	583.02	49	70	1.99	1166.28	1161	10	2.74E-03	80.9	8.77E-01	T
1	596.01	72	85	1.89	1192.25	1187	10	4.02E-03	53.2	8.63E-01	
1	609.30	70	97	1.45	1218.82	1214	10	3.88E-03	70.4	8.48E-01	
1	1756.66	14	13	1.71	3512.25	3505	11	7.50E-04	****	3.78E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	10	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	3	30.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	5.392E+00	5.392E+00	39.73E+00	736.78	
RA-226	1600.00Y	1.00	3.036E+01	3.036E+01	5.543E+01	182.59	
		Total Activity :	3.575E+01	3.575E+01			

Grand Total Activity : 3.575E+01 3.575E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	5.392E+00	3.973E+01	4.133E+01	0.000E+00	0.130
RA-226	3.036E+01	5.543E+01	9.306E+01	0.000E+00	0.326

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.120E+00		2.392E+01	3.962E+01	0.000E+00	0.028

NA-24	2.223E-02	2.208E-01	Half-Life too short	0.000E+00	-0.364
CR-51	-1.629E+01	2.778E+01	4.477E+01	0.000E+00	0.249
MN-54	1.074E+00	2.582E+00	4.320E+00	0.000E+00	0.356
CO-57	1.372E+00	2.267E+00	3.853E+00	0.000E+00	0.170
CO-58	7.679E-01	2.715E+00	4.517E+00	0.000E+00	0.238
FE-59	2.341E+00	5.854E+00	9.839E+00	0.000E+00	0.334
CO-60	1.670E+00	3.052E+00	4.992E+00	0.000E+00	-0.110
ZN-65	-1.005E+00	5.650E+00	9.117E+00	0.000E+00	-0.331
SE-75	-1.843E+00	3.402E+00	5.562E+00	0.000E+00	2.864
SR-85	1.853E+01	3.328E+00	6.471E+00	0.000E+00	-0.467
Y-88	-2.366E+00	3.322E+00	5.066E+00	0.000E+00	0.034
NB-94	1.418E-01	2.519E+00	4.175E+00	0.000E+00	-0.164
NB-95	-7.090E-01	2.682E+00	4.334E+00	0.000E+00	0.003
ZR-95	2.036E-02	4.562E+00	7.501E+00	0.000E+00	0.260
MO-99	1.271E+02	2.901E+02	4.893E+02	0.000E+00	0.182
RU-103	9.049E-01	2.967E+00	4.961E+00	0.000E+00	-0.342
RU-106	-1.226E+01	2.282E+01	3.586E+01	0.000E+00	0.484
AG-110m	2.132E+00	2.546E+00	4.407E+00	0.000E+00	0.138
SN-113	7.814E-01	3.445E+00	5.654E+00	0.000E+00	0.327
SB-124	1.438E+00	5.779E+00	4.395E+00	0.000E+00	-0.081
SB-125	-9.515E-01	7.124E+00	1.179E+01	0.000E+00	0.490
TE-129M	2.854E+01	3.391E+01	5.827E+01	0.000E+00	0.084
I-131	8.598E-01	6.248E+00	1.026E+01	0.000E+00	0.379
BA-133	2.233E+00	3.512E+00	5.884E+00	0.000E+00	1.080
CS-134	4.973E+00	4.073E+00	4.604E+00	0.000E+00	-0.688
CS-136	-4.412E+00	4.221E+00	6.414E+00	0.000E+00	-0.143
CS-137	-6.505E-01	2.771E+00	4.542E+00	0.000E+00	0.173
CE-139	7.021E-01	2.447E+00	4.070E+00	0.000E+00	-0.218
BA-140	-5.239E+00	1.492E+01	2.401E+01	0.000E+00	-0.097
LA-140	-8.483E-01	5.348E+00	8.727E+00	0.000E+00	0.583
CE-141	4.649E+00	5.433E+00	7.977E+00	0.000E+00	-0.306
CE-144	-8.683E+00	2.019E+01	2.833E+01	0.000E+00	-1.065
EU-152	-1.363E+01	8.318E+00	1.281E+01	0.000E+00	0.212
EU-154	1.671E+00	4.667E+00	7.882E+00	0.000E+00	-0.494
AC-228	-8.128E+00	1.073E+01	1.645E+01	0.000E+00	0.103
TH-228	8.051E-01	4.877E+00	7.827E+00	0.000E+00	-0.494
TH-232	-8.099E+00	1.069E+01	1.639E+01	0.000E+00	0.477
U-235	1.406E+01	2.020E+01	2.948E+01	0.000E+00	0.434
U-238	2.024E+02	2.694E+02	4.669E+02	0.000E+00	-0.734
AM-241	-2.873E+01	2.561E+01	3.914E+01		

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A,04L28841-2        ,06/11/2006 14:31,05/31/2006 16:00,   2.961E+00,WG L28841-2TMI
B,04L28841-2        ,LIBD                ,06/02/2006 09:04,043L082004
C,K-40     ,YES,    5.392E+00,   3.973E+01,   4.133E+01,,    0.130
C,RA-226   ,YES,    3.036E+01,   5.543E+01,   9.306E+01,,    0.326
C,BE-7     ,NO ,    1.120E+00,   2.392E+01,   3.962E+01,,    0.028
C,CR-51    ,NO ,   -1.629E+01,   2.778E+01,   4.477E+01,,   -0.364
C,MN-54    ,NO ,    1.074E+00,   2.582E+00,   4.320E+00,,    0.249
C,CO-57    ,NO ,    1.372E+00,   2.267E+00,   3.853E+00,,    0.356
C,CO-58    ,NO ,    7.679E-01,   2.715E+00,   4.517E+00,,    0.170
C,FE-59    ,NO ,    2.341E+00,   5.854E+00,   9.839E+00,,    0.238
C,CO-60    ,NO ,    1.670E+00,   3.052E+00,   4.992E+00,,    0.334
C,ZN-65    ,NO ,   -1.005E+00,   5.650E+00,   9.117E+00,,   -0.110
C,SE-75    ,NO ,   -1.843E+00,   3.402E+00,   5.562E+00,,   -0.331
C,SR-85    ,NO ,    1.853E+01,   3.328E+00,   6.471E+00,,    2.864
C,Y-88     ,NO ,   -2.366E+00,   3.322E+00,   5.066E+00,,   -0.467
C,NB-94    ,NO ,    1.418E-01,   2.519E+00,   4.175E+00,,    0.034
C,NB-95    ,NO ,   -7.090E-01,   2.682E+00,   4.334E+00,,   -0.164
C,ZR-95    ,NO ,    2.036E-02,   4.562E+00,   7.501E+00,,    0.003
C,MO-99    ,NO ,    1.271E+02,   2.901E+02,   4.893E+02,,    0.260
C,RU-103   ,NO ,    9.049E-01,   2.967E+00,   4.961E+00,,    0.182
C,RU-106   ,NO ,   -1.226E+01,   2.282E+01,   3.586E+01,,   -0.342
C,AG-110m  ,NO ,    2.132E+00,   2.546E+00,   4.407E+00,,    0.484
C,SN-113   ,NO ,    7.814E-01,   3.445E+00,   5.654E+00,,    0.138
C,SB-124   ,NO ,    1.438E+00,   5.779E+00,   4.395E+00,,    0.327
C,SB-125   ,NO ,   -9.515E-01,   7.124E+00,   1.179E+01,,   -0.081
C,TE-129M  ,NO ,    2.854E+01,   3.391E+01,   5.827E+01,,    0.490
C,I-131    ,NO ,    8.598E-01,   6.248E+00,   1.026E+01,,    0.084
C,BA-133   ,NO ,    2.233E+00,   3.512E+00,   5.884E+00,,    0.379
C,CS-134   ,NO ,    4.973E+00,   4.073E+00,   4.604E+00,,    1.080
C,CS-136   ,NO ,   -4.412E+00,   4.221E+00,   6.414E+00,,   -0.688
C,CS-137   ,NO ,   -6.505E-01,   2.771E+00,   4.542E+00,,   -0.143
C,CE-139   ,NO ,    7.021E-01,   2.447E+00,   4.070E+00,,    0.173
C,BA-140   ,NO ,   -5.239E+00,   1.492E+01,   2.401E+01,,   -0.218
C,LA-140   ,NO ,   -8.483E-01,   5.348E+00,   8.727E+00,,   -0.097
C,CE-141   ,NO ,    4.649E+00,   5.433E+00,   7.977E+00,,    0.583
C,CE-144   ,NO ,   -8.683E+00,   2.019E+01,   2.833E+01,,   -0.306
C,EU-152   ,NO ,   -1.363E+01,   8.318E+00,   1.281E+01,,   -1.065
C,EU-154   ,NO ,    1.671E+00,   4.667E+00,   7.882E+00,,    0.212
C,AC-228   ,NO ,   -8.128E+00,   1.073E+01,   1.645E+01,,   -0.494
C,TH-228   ,NO ,    8.051E-01,   4.877E+00,   7.827E+00,,    0.103
C,TH-232   ,NO ,   -8.099E+00,   1.069E+01,   1.639E+01,,   -0.494
C,U-235    ,NO ,    1.406E+01,   2.020E+01,   2.948E+01,,    0.477
C,U-238    ,NO ,    2.024E+02,   2.694E+02,   4.669E+02,,    0.434
C,AM-241   ,NO ,   -2.873E+01,   2.561E+01,   3.914E+01,,   -0.734
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Sec. Review: Analyst: KOJ LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 12-JUN-2006 09:32:09.06
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 11-JUN-2006 23:41:52.88

LIMS No., Customer Name, Client ID: WG L28841-3 EX TMI

Smple Date: 1-JUN-2006 11:20:00.0

Sample ID : 11L28841-3
Sample Type : WG
Quantity : 2.95950E+00 L
Start Channel : 40
End Channel : 4090
MDA Constant : 0.00

Energy Tol : 1.00000
Pk Srch Sens: 5.00000
Library Used: LIBD

Geometry : 113L082304
BKGFILE : 11BG060306MT
Real Time : 0 09:48:46.07
Live time : 0 09:48:33.45

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	66.30	411	1978	1.09	131.60	6.86E-01	1.16E-02	19.4	
2	0	93.50	162	1309	1.93	186.16	1.48E+00	4.59E-03	42.7	
3	0	139.97*	132	856	1.37	279.37	1.90E+00	3.74E-03	45.2	
4	0	185.57*	103	674	1.24	370.82	1.80E+00	2.93E-03	55.3	
5	0	198.44	291	926	1.21	396.63	1.75E+00	8.24E-03	20.5	
6	1	238.43*	133	592	1.55	476.81	1.58E+00	3.76E-03	43.7	3.43E+00
7	1	241.87	167	584	1.55	483.72	1.56E+00	4.74E-03	27.5	
8	0	295.03*	87	552	1.15	590.27	1.37E+00	2.48E-03	58.1	
9	0	351.83*	267	486	1.46	704.12	1.20E+00	7.56E-03	20.9	
10	0	582.46*	17	227	2.18	1166.11	8.18E-01	4.90E-04	229.2	
11	0	596.06	87	259	1.05	1193.35	8.03E-01	2.45E-03	37.6	
12	0	609.07*	223	352	1.76	1219.39	7.90E-01	6.30E-03	22.0	
13	0	1120.26*	83	103	2.40	2241.96	4.86E-01	2.36E-03	32.4	
14	0	1460.39*	273	94	1.95	2921.28	3.92E-01	7.73E-03	12.6	
15	0	1761.39	77	52	1.23	3521.77	3.39E-01	2.18E-03	21.5	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	273	10.67*	3.920E-01	1.688E+02	1.688E+02	25.21
RA-226	186.21	103	3.28*	1.800E+00	4.533E+01	4.533E+01	110.54
	238.63	133	44.60*	1.578E+00	4.875E+00	4.927E+00	87.46
TH-228	240.98	167	3.95	1.564E+00	7.004E+01	7.079E+01	54.99
U-235	143.76	------	10.50*	1.906E+00	------	Line Not Found	------
	163.35	------	4.70	1.876E+00	------	Line Not Found	------
	185.71	103	54.00	1.800E+00	2.754E+00	2.754E+00	110.54
	205.31	------	4.70	1.718E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 11L28841-3

Acquisition date : 11-JUN-2006 23:41:52

Total number of lines in spectrum	15	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	5	33.33%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.688E+02	1.688E+02	0.426E+02	25.21	
RA-226	1600.00Y	1.00	4.533E+01	4.533E+01	5.011E+01	110.54	
TH-228	1.91Y	1.01	4.875E+00	4.927E+00	4.309E+00	87.46	
U-235	7.04E+08Y	1.00	2.754E+00	2.754E+00	3.044E+00	110.54	K
			---	---			
Total Activity :			2.218E+02	2.218E+02			

Grand Total Activity : 2.218E+02 2.218E+02

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 11L28841-3

Acquisition date : 11-JUN-2006 23:41:52

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	66.30	411	1978	1.09	131.60	128	8	1.16E-02	38.8	6.86E-01	
0	93.50	162	1309	1.93	186.16	180	10	4.59E-03	85.3	1.48E+00	
0	139.97	132	856	1.37	279.37	276	8	3.74E-03	90.4	1.90E+00	
0	198.44	291	926	1.21	396.63	392	10	8.24E-03	41.0	1.75E+00	
0	295.03	87	552	1.15	590.27	585	10	2.48E-03	****	1.37E+00	
0	351.83	267	486	1.46	704.12	698	13	7.56E-03	41.9	1.20E+00	
0	582.46	17	227	2.18	1166.11	1161	12	4.90E-04	****	8.18E-01	T
0	596.06	87	259	1.05	1193.35	1188	11	2.45E-03	75.1	8.03E-01	
0	609.07	223	352	1.76	1219.39	1213	16	6.30E-03	44.1	7.90E-01	
0	1120.26	83	103	2.40	2241.96	2235	16	2.36E-03	64.7	4.86E-01	
0	1761.39	77	52	1.23	3521.77	3516	11	2.18E-03	43.0	3.39E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	15	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	5	33.33%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.688E+02	1.688E+02	0.426E+02	25.21	
RA-226	1600.00Y	1.00	4.533E+01	4.533E+01	5.011E+01	110.54	
TH-228	1.91Y	1.01	4.875E+00	4.927E+00	4.309E+00	87.46	
			---	---			
Total Activity :			2.190E+02	2.191E+02			

Grand Total Activity : 2.190E+02 2.191E+02

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	1.688E+02	4.256E+01	3.416E+01	0.000E+00	4.941
RA-226	4.533E+01	5.011E+01	7.984E+01	0.000E+00	0.568
TH-228	4.927E+00	4.309E+00	6.240E+00	0.000E+00	0.790

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.639E+01		1.954E+01	3.272E+01	0.000E+00	0.501
NA-24	-4.422E-01		1.662E-01	Half-Life too short		
CR-51	-3.299E+01		2.223E+01	3.547E+01	0.000E+00	-0.930
MN-54	3.221E-01		2.028E+00	3.343E+00	0.000E+00	0.096
CO-57	5.618E-01		2.079E+00	3.442E+00	0.000E+00	0.163
CO-58	-7.360E-01		2.325E+00	3.765E+00	0.000E+00	-0.196
FE-59	4.790E+00		4.425E+00	7.699E+00	0.000E+00	0.622
CO-60	1.309E+00		2.071E+00	3.523E+00	0.000E+00	0.371
ZN-65	7.208E+00		5.321E+00	8.104E+00	0.000E+00	0.889
SE-75	-1.054E+00		2.879E+00	4.754E+00	0.000E+00	-0.222
SR-85	1.610E+01		2.648E+00	4.932E+00	0.000E+00	3.263
Y-88	3.332E-01		2.525E+00	4.196E+00	0.000E+00	0.079
NB-94	-2.880E+00		1.899E+00	2.948E+00	0.000E+00	-0.977
NB-95	3.625E+00		2.263E+00	3.945E+00	0.000E+00	0.919
ZR-95	-2.383E+00		3.970E+00	6.372E+00	0.000E+00	-0.374
MO-99	-1.909E+01		2.268E+02	3.722E+02	0.000E+00	-0.051
RU-103	1.729E+00		2.443E+00	4.069E+00	0.000E+00	0.425
RU-106	7.230E+00		2.057E+01	3.265E+01	0.000E+00	0.221
AG-110m	-7.006E-01		2.014E+00	3.289E+00	0.000E+00	-0.213
SN-113	1.009E+00		2.776E+00	4.608E+00	0.000E+00	0.219
SB-124	-8.438E-01		5.240E+00	3.656E+00	0.000E+00	-0.231
SB-125	1.737E+00		5.857E+00	9.680E+00	0.000E+00	0.179
TE-129M	1.506E+01		2.918E+01	4.842E+01	0.000E+00	0.311
I-131	-1.411E+00		5.139E+00	8.406E+00	0.000E+00	-0.168
BA-133	1.066E+01		3.296E+00	5.145E+00	0.000E+00	2.071
CS-134	7.850E+00		3.965E+00	4.051E+00	0.000E+00	1.938
CS-136	-2.149E+00		3.490E+00	5.569E+00	0.000E+00	-0.386
CS-137	-6.248E-01		2.217E+00	3.629E+00	0.000E+00	-0.172
CE-139	1.980E+00		2.105E+00	3.502E+00	0.000E+00	0.565
BA-140	3.848E+00		1.265E+01	2.076E+01	0.000E+00	0.185
LA-140	-2.939E-01		4.181E+00	6.910E+00	0.000E+00	-0.043
CE-141	3.924E+00		4.924E+00	6.997E+00	0.000E+00	0.561
CE-144	-1.804E+01		1.863E+01	2.538E+01	0.000E+00	-0.711
EU-152	-5.936E+00		7.729E+00	1.049E+01	0.000E+00	-0.566
EU-154	3.058E+00		4.266E+00	7.111E+00	0.000E+00	0.430
AC-228	-1.010E+00		1.007E+01	1.320E+01	0.000E+00	-0.076
TH-232	-1.006E+00		1.004E+01	1.316E+01	0.000E+00	-0.076
U-235	2.856E+01		1.841E+01	2.664E+01	0.000E+00	1.072
U-238	2.587E+01		2.256E+02	3.771E+02	0.000E+00	0.069
AM-241	5.252E+00		3.111E+01	4.280E+01	0.000E+00	0.123

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A,11L28841-3        ,06/12/2006 09:32,06/01/2006 11:20,   2.960E+00,WG L28841-3 EX
B,11L28841-3        ,LIBD                ,06/07/2006 09:40,113L082304
C,K-40     ,YES,  1.688E+02,  4.256E+01,  3.416E+01,,    4.941
C,RA-226   ,YES,  4.533E+01,  5.011E+01,  7.984E+01,,    0.568
C,TH-228   ,YES,  4.927E+00,  4.309E+00,  6.240E+00,,    0.790
C,BE-7     ,NO ,  1.639E+01,  1.954E+01,  3.272E+01,,    0.501
C,CR-51    ,NO , -3.299E+01,  2.223E+01,  3.547E+01,,   -0.930
C,MN-54    ,NO ,  3.221E-01,  2.028E+00,  3.343E+00,,    0.096
C,CO-57    ,NO ,  5.618E-01,  2.079E+00,  3.442E+00,,    0.163
C,CO-58    ,NO , -7.360E-01,  2.325E+00,  3.765E+00,,   -0.196
C,FE-59    ,NO ,  4.790E+00,  4.425E+00,  7.699E+00,,    0.622
C,CO-60    ,NO ,  1.309E+00,  2.071E+00,  3.523E+00,,    0.371
C,ZN-65    ,NO ,  7.208E+00,  5.321E+00,  8.104E+00,,    0.889
C,SE-75    ,NO , -1.054E+00,  2.879E+00,  4.754E+00,,   -0.222
C,SR-85    ,NO ,  1.610E+01,  2.648E+00,  4.932E+00,,    3.263
C,Y-88     ,NO ,  3.332E-01,  2.525E+00,  4.196E+00,,    0.079
C,NB-94    ,NO , -2.880E+00,  1.899E+00,  2.948E+00,,   -0.977
C,NB-95    ,NO ,  3.625E+00,  2.263E+00,  3.945E+00,,    0.919
C,ZR-95    ,NO , -2.383E+00,  3.970E+00,  6.372E+00,,   -0.374
C,MO-99    ,NO , -1.909E+01,  2.268E+02,  3.722E+02,,   -0.051
C,RU-103   ,NO ,  1.729E+00,  2.443E+00,  4.069E+00,,    0.425
C,RU-106   ,NO ,  7.230E+00,  2.057E+01,  3.265E+01,,    0.221
C,AG-110m  ,NO , -7.006E-01,  2.014E+00,  3.289E+00,,   -0.213
C,SN-113   ,NO ,  1.009E+00,  2.776E+00,  4.608E+00,,    0.219
C,SB-124   ,NO , -8.438E-01,  5.240E+00,  3.656E+00,,   -0.231
C,SB-125   ,NO ,  1.737E+00,  5.857E+00,  9.680E+00,,    0.179
C,TE-129M  ,NO ,  1.506E+01,  2.918E+01,  4.842E+01,,    0.311
C,I-131    ,NO , -1.411E+00,  5.139E+00,  8.406E+00,,   -0.168
C,BA-133   ,NO ,  1.066E+01,  3.296E+00,  5.145E+00,,    2.071
C,CS-134   ,NO ,  7.850E+00,  3.965E+00,  4.051E+00,,    1.938
C,CS-136   ,NO , -2.149E+00,  3.490E+00,  5.569E+00,,   -0.386
C,CS-137   ,NO , -6.248E-01,  2.217E+00,  3.629E+00,,   -0.172
C,CE-139   ,NO ,  1.980E+00,  2.105E+00,  3.502E+00,,    0.565
C,BA-140   ,NO ,  3.848E+00,  1.265E+01,  2.076E+01,,    0.185
C,LA-140   ,NO , -2.939E-01,  4.181E+00,  6.910E+00,,   -0.043
C,CE-141   ,NO ,  3.924E+00,  4.924E+00,  6.997E+00,,    0.561
C,CE-144   ,NO , -1.804E+01,  1.863E+01,  2.538E+01,,   -0.711
C,EU-152   ,NO , -5.936E+00,  7.729E+00,  1.049E+01,,   -0.566
C,EU-154   ,NO ,  3.058E+00,  4.266E+00,  7.111E+00,,    0.430
C,AC-228   ,NO , -1.010E+00,  1.007E+01,  1.320E+01,,   -0.076
C,TH-232   ,NO , -1.006E+00,  1.004E+01,  1.316E+01,,   -0.076
C,U-235    ,NO ,  2.856E+01,  1.841E+01,  2.664E+01,,    1.072
C,U-238    ,NO ,  2.587E+01,  2.256E+02,  3.771E+02,,    0.069
C,AM-241   ,NO ,  5.252E+00,  3.111E+01,  4.280E+01,,    0.123
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 15:44:48.83
TBE14 P-10933A HpGe ********** Aquisition Date/Time: 11-JUN-2006 09:34:43.51

LIMS No., Customer Name, Client ID: WG L28841-4 TMI

Sample ID : 14L28841-4
Sample Type : WG
Quantity : 2.96060E+00 L
Start Channel : 90
End Channel : 4090
MDA Constant : 0.00

Energy Tol : 1.00000
Pk Srch Sens: 5.00000
Library Used: LIBD

Smple Date: 30-MAY-2006 18:15:00.
Geometry : 143L082304
BKGFILE : 14BG060306MT
Real Time : 0 06:10:01.90
Live time : 0 06:09:58.27

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.42	202	662	1.27	133.82	5.14E-01	9.09E-03	23.3	7.42E-01
2	1	140.03	89	562	1.05	281.42	1.90E+00	4.01E-03	45.4	1.68E+00
3	1	198.68*	119	590	1.59	398.97	1.83E+00	5.34E-03	42.3	1.37E+00
4	1	242.23	83	376	1.30	486.20	1.66E+00	3.75E-03	40.3	2.78E+00
5	1	295.42	191	402	1.78	592.73	1.46E+00	8.60E-03	22.3	1.01E+00
6	1	352.45*	116	448	1.74	706.87	1.28E+00	5.21E-03	43.9	1.06E+00
7	1	583.01*	7	163	1.92	1167.84	8.62E-01	3.21E-04	411.8	1.16E+00
8	1	596.14	98	116	2.17	1194.06	8.48E-01	4.43E-03	22.0	1.45E+00
9	1	609.31*	190	188	1.95	1220.36	8.33E-01	8.57E-03	19.5	1.65E+00
10	1	1120.57*	44	65	2.43	2239.28	5.30E-01	2.00E-03	47.0	1.24E+00
11	1	1461.20*	23	81	2.65	2915.84	4.36E-01	1.04E-03	120.0	1.41E+00
12	1	1766.08*	30	51	2.63	3519.85	3.79E-01	1.36E-03	64.7	1.61E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	23	10.67*	4.362E-01	2.038E+01	2.038E+01	240.01

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 14L28841-4

Acquisition date : 11-JUN-2006 09:34:43

Total number of lines in spectrum	12	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	2	16.67%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.038E+01	2.038E+01	4.891E+01	240.01	
		Total Activity :	2.038E+01	2.038E+01			
		Grand Total Activity :	2.038E+01	2.038E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 14L28841-4

Acquisition date : 11-JUN-2006 09:34:43

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.42	202	662	1.27	133.82	130	8	9.09E-03	46.5	5.14E-01	
1	140.03	89	562	1.05	281.42	279	7	4.01E-03	90.7	1.90E+00	
1	198.68	119	590	1.59	398.97	394	10	5.34E-03	84.5	1.83E+00	
1	242.23	83	376	1.30	486.20	483	7	3.75E-03	80.5	1.66E+00	
1	295.42	191	402	1.78	592.73	588	12	8.60E-03	44.7	1.46E+00	
1	352.45	116	448	1.74	706.87	702	14	5.21E-03	87.8	1.28E+00	
1	583.01	7	163	1.92	1167.84	1164	11	3.21E-04	****	8.62E-01	T
1	596.14	98	116	2.17	1194.06	1190	9	4.43E-03	44.1	8.48E-01	
1	609.31	190	188	1.95	1220.36	1213	15	8.57E-03	39.1	8.33E-01	
1	1120.57	44	65	2.43	2239.28	2234	12	2.00E-03	94.0	5.30E-01	
1	1766.08	30	51	2.63	3519.85	3511	17	1.36E-03	****	3.79E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	12	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	2	16.67%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.038E+01	2.038E+01	4.891E+01	240.01	
		Total Activity :	2.038E+01	2.038E+01			

Grand Total Activity : 2.038E+01 2.038E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	2.038E+01	4.891E+01	4.412E+01	0.000E+00	0.46

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MD

			4.286E+01	0.000E+00	0.087
BE-7	3.720E+00	2.589E+01	Half-Life too short		
NA-24	-4.367E-01	7.096E-01	4.857E+01	0.000E+00	-0.612
CR-51	-2.971E+01	3.045E+01	4.678E+00	0.000E+00	0.392
MN-54	1.836E+00	2.782E+00	4.406E+00	0.000E+00	-0.093
CO-57	-4.078E-01	2.663E+00	4.985E+00	0.000E+00	0.312
CO-58	1.553E+00	2.978E+00	9.795E+00	0.000E+00	-0.074
FE-59	-7.272E-01	6.027E+00	4.514E+00	0.000E+00	-0.757
CO-60	-3.416E+00	2.952E+00	1.068E+01	0.000E+00	0.679
ZN-65	7.252E+00	7.233E+00	6.239E+00	0.000E+00	-0.052
SE-75	-3.225E-01	3.778E+00	6.610E+00	0.000E+00	3.240
SR-85	2.142E+01	3.459E+00	4.693E+00	0.000E+00	-0.495
Y-88	-2.323E+00	3.059E+00	4.284E+00	0.000E+00	-0.341
NB-94	-1.461E+00	2.659E+00	4.707E+00	0.000E+00	-0.233
NB-95	-1.098E+00	2.921E+00	8.396E+00	0.000E+00	-0.185
ZR-95	-1.553E+00	5.188E+00	6.284E+02	0.000E+00	-0.063
MO-99	-3.981E+01	3.841E+02	5.628E+00	0.000E+00	0.430
RU-103	2.421E+00	3.340E+00	4.264E+01	0.000E+00	0.380
RU-106	1.621E+01	2.628E+01	4.433E+00	0.000E+00	-0.146
AG-110m	-6.469E-01	2.704E+00	5.956E+00	0.000E+00	0.076
SN-113	4.554E-01	3.657E+00	4.795E+00	0.000E+00	-0.126
SB-124	-6.028E-01	7.087E+00	1.277E+01	0.000E+00	-0.171
SB-125	-2.185E+00	7.776E+00	6.274E+01	0.000E+00	0.107
TE-129M	6.703E+00	3.777E+01	1.189E+01	0.000E+00	-0.431
I-131	-5.123E+00	7.850E+00	6.968E+00	0.000E+00	1.878
BA-133	1.309E+01	4.518E+00	5.353E+00	0.000E+00	1.557
CS-134	8.335E+00	5.522E+00	7.256E+00	0.000E+00	-0.821
CS-136	-5.956E+00	4.749E+00	4.952E+00	0.000E+00	0.258
CS-137	1.277E+00	2.940E+00	4.412E+00	0.000E+00	-0.006
CE-139	-2.733E-02	2.691E+00	2.984E+01	0.000E+00	-0.092
BA-140	-2.757E+00	1.834E+01	1.002E+01	0.000E+00	0.753
LA-140	7.546E+00	5.548E+00	9.083E+00	0.000E+00	-0.140
CE-141	-1.273E+00	6.527E+00	3.496E+01	0.000E+00	0.508
CE-144	1.777E+01	2.358E+01	1.360E+01	0.000E+00	-0.731
EU-152	-9.944E+00	1.031E+01	9.001E+00	0.000E+00	-0.133
EU-154	-1.194E+00	5.450E+00	1.074E+02	0.000E+00	-0.112
RA-226	-1.205E+01	6.955E+01	1.697E+01	0.000E+00	-0.297
AC-228	-5.038E+00	1.084E+01	8.523E+00	0.000E+00	0.595
TH-228	5.073E+00	6.018E+00	1.690E+01	0.000E+00	-0.297
TH-232	-5.018E+00	1.080E+01	3.422E+01	0.000E+00	0.695
U-235	2.380E+01	2.371E+01	4.812E+02	0.000E+00	0.202
U-238	9.712E+01	2.870E+02	5.691E+01	0.000E+00	-0.782
AM-241	-4.448E+01	4.040E+01			

A,14L28841-4 ,06/11/2006 15:44,05/30/2006 18:15, 2.961E+00,WG L28841-4 TM
B,14L28841-4 ,LIBD ,06/02/2006 08:23,143L082304

C,K-40	,YES,	2.038E+01,	4.891E+01,	4.412E+01,,	0.462
C,BE-7	,NO ,	3.720E+00,	2.589E+01,	4.286E+01,,	0.087
C,CR-51	,NO ,	-2.971E+01,	3.045E+01,	4.857E+01,,	-0.612
C,MN-54	,NO ,	1.836E+00,	2.782E+00,	4.678E+00,,	0.392
C,CO-57	,NO ,	-4.078E-01,	2.663E+00,	4.406E+00,,	-0.093
C,CO-58	,NO ,	1.553E+00,	2.978E+00,	4.985E+00,,	0.312
C,FE-59	,NO ,	-7.272E-01,	6.027E+00,	9.795E+00,,	-0.074
C,CO-60	,NO ,	-3.416E+00,	2.952E+00,	4.514E+00,,	-0.757
C,ZN-65	,NO ,	7.252E+00,	7.233E+00,	1.068E+01,,	0.679
C,SE-75	,NO ,	-3.225E-01,	3.778E+00,	6.239E+00,,	-0.052
C,SR-85	,NO ,	2.142E+01,	3.459E+00,	6.610E+00,,	3.240
C,Y-88	,NO ,	-2.323E+00,	3.059E+00,	4.693E+00,,	-0.495
C,NB-94	,NO ,	-1.461E+00,	2.659E+00,	4.284E+00,,	-0.341
C,NB-95	,NO ,	-1.098E+00,	2.921E+00,	4.707E+00,,	-0.233
C,ZR-95	,NO ,	-1.553E+00,	5.188E+00,	8.396E+00,,	-0.185
C,MO-99	,NO ,	-3.981E+01,	3.841E+02,	6.284E+02,,	-0.063
C,RU-103	,NO ,	2.421E+00,	3.340E+00,	5.628E+00,,	0.430
C,RU-106	,NO ,	1.621E+01,	2.628E+01,	4.264E+01,,	0.380
C,AG-110m	,NO ,	-6.469E-01,	2.704E+00,	4.433E+00,,	-0.146
C,SN-113	,NO ,	4.554E-01,	3.657E+00,	5.956E+00,,	0.076
C,SB-124	,NO ,	-6.028E-01,	7.087E+00,	4.795E+00,,	-0.126
C,SB-125	,NO ,	-2.185E+00,	7.776E+00,	1.277E+01,,	-0.171
C,TE-129M	,NO ,	6.703E+00,	3.777E+01,	6.274E+01,,	0.107
C,I-131	,NO ,	-5.123E+00,	7.850E+00,	1.189E+01,,	-0.431
C,BA-133	,NO ,	1.309E+01,	4.518E+00,	6.968E+00,,	1.878
C,CS-134	,NO ,	8.335E+00,	5.522E+00,	5.353E+00,,	1.557
C,CS-136	,NO ,	-5.956E+00,	4.749E+00,	7.256E+00,,	-0.821
C,CS-137	,NO ,	1.277E+00,	2.940E+00,	4.952E+00,,	0.258
C,CE-139	,NO ,	-2.733E-02,	2.691E+00,	4.412E+00,,	-0.006
C,BA-140	,NO ,	-2.757E+00,	1.834E+01,	2.984E+01,,	-0.092
C,LA-140	,NO ,	7.546E+00,	5.548E+00,	1.002E+01,,	0.753
C,CE-141	,NO ,	-1.273E+00,	6.527E+00,	9.083E+00,,	-0.140
C,CE-144	,NO ,	1.777E+01,	2.358E+01,	3.496E+01,,	0.508
C,EU-152	,NO ,	-9.944E+00,	1.031E+01,	1.360E+01,,	-0.731
C,EU-154	,NO ,	-1.194E+00,	5.450E+00,	9.001E+00,,	-0.133
C,RA-226	,NO ,	-1.205E+01,	6.955E+01,	1.074E+02,,	-0.112
C,AC-228	,NO ,	-5.038E+00,	1.084E+01,	1.697E+01,,	-0.297
C,TH-228	,NO ,	5.073E+00,	6.018E+00,	8.523E+00,,	0.595
C,TH-232	,NO ,	-5.018E+00,	1.080E+01,	1.690E+01,,	-0.297
C,U-235	,NO ,	2.380E+01,	2.371E+01,	3.422E+01,,	0.695
C,U-238	,NO ,	9.712E+01,	2.870E+02,	4.812E+02,,	0.202
C,AM-241	,NO ,	-4.448E+01,	4.040E+01,	5.691E+01,,	-0.782

Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 14:52:54.74
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 11-JUN-2006 09:52:41.33

LIMS No., Customer Name, Client ID: WG L28841-5 TMI

Sample ID : 07L28841-5
Sample Type : WG
Quantity : 2.97070E+00 L
Start Channel : 40 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 31-MAY-2006 11:30:00.
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 05:00:03.54
Live time : 0 05:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.27*	181	434	1.22	133.10	8.03E-01	1.01E-02	21.9	2.69E+00
2	1	139.61*	129	679	1.42	279.90	2.36E+00	7.17E-03	43.4	2.18E+00
3	1	294.91*	85	331	1.05	590.71	1.81E+00	4.74E-03	45.7	3.87E+00
4	1	351.85*	145	211	1.27	704.67	1.61E+00	8.04E-03	24.1	2.11E+00
5	1	596.45	124	133	1.81	1194.08	1.10E+00	6.91E-03	19.1	3.91E+00
6	1	609.25*	219	89	1.69	1219.67	1.09E+00	1.21E-02	12.6	
7	1	1461.07*	42	49	2.96	2923.12	5.83E-01	2.35E-03	58.4	1.49E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	42	10.67*	5.827E-01	3.432E+01	3.432E+01	116.73

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28841-5

Acquisition date : 11-JUN-2006 09:52:41

Total number of lines in spectrum	7	
Number of unidentified lines	6	
Number of lines tentatively identified by NID	1	14.29%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.432E+01	3.432E+01	4.006E+01	116.73	
		Total Activity :	3.432E+01	3.432E+01			

Grand Total Activity : 3.432E+01 3.432E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 07L28841-5

Acquisition date : 11-JUN-2006 09:52:41

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.27	181	434	1.22	133.10	130	7	1.01E-02	43.7	8.03E-01	
1	139.61	129	679	1.42	279.90	274	12	7.17E-03	86.8	2.36E+00	
1	294.91	85	331	1.05	590.71	585	11	4.74E-03	91.3	1.81E+00	
1	351.85	145	211	1.27	704.67	700	10	8.04E-03	48.1	1.61E+00	
1	596.45	124	133	1.81	1194.08	1188	37	6.91E-03	38.3	1.10E+00	
1	609.25	219	89	1.69	1219.67	1188	37	1.21E-02	25.3	1.09E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	7	
Number of unidentified lines	6	
Number of lines tentatively identified by NID	1	14.29%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.432E+01	3.432E+01	4.006E+01	116.73	
		Total Activity :	3.432E+01	3.432E+01			

Grand Total Activity : 3.432E+01 3.432E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	3.432E+01	4.006E+01	3.337E+01	0.000E+00	1.028

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.196E+01		2.146E+01	3.574E+01	0.000E+00	0.335
NA-24	-4.551E-01		2.512E-01	Half-Life too short		
CR-51	-4.002E+01		2.463E+01	3.893E+01	0.000E+00	-1.028
MN-54	3.469E-01		2.283E+00	3.802E+00	0.000E+00	0.09
CO-57	2.334E-01		2.263E+00	3.707E+00	0.000E+00	0.06

CO-58	-3.198E-01	2.472E+00	4.065E+00	0.000E+00	-0.079
FE-59	9.987E-01	4.779E+00	8.016E+00	0.000E+00	0.125
CO-60	-2.295E-02	2.330E+00	3.802E+00	0.000E+00	-0.006
ZN-65	8.781E+00	5.167E+00	9.314E+00	0.000E+00	0.943
SE-75	-3.244E+00	3.157E+00	4.992E+00	0.000E+00	-0.650
SR-85	2.117E+01	3.055E+00	6.023E+00	0.000E+00	3.515
Y-88	-1.242E+00	2.629E+00	4.183E+00	0.000E+00	-0.297
NB-94	1.396E+00	2.261E+00	3.795E+00	0.000E+00	0.368
NB-95	2.545E+00	2.468E+00	4.299E+00	0.000E+00	0.592
ZR-95	-2.953E+00	4.357E+00	6.814E+00	0.000E+00	-0.433
MO-99	1.726E+02	2.560E+02	4.314E+02	0.000E+00	0.400
RU-103	1.846E-01	2.725E+00	4.438E+00	0.000E+00	0.042
RU-106	3.291E+00	2.164E+01	3.584E+01	0.000E+00	0.092
AG-110m	6.202E-01	2.252E+00	3.740E+00	0.000E+00	0.166
SN-113	3.264E-01	3.034E+00	5.016E+00	0.000E+00	0.065
SB-124	2.299E+00	2.517E+00	4.304E+00	0.000E+00	0.534
SB-125	-3.571E+00	6.750E+00	1.084E+01	0.000E+00	-0.329
TE-129M	1.057E+01	3.238E+01	5.351E+01	0.000E+00	0.198
I-131	-2.524E-02	5.706E+00	9.434E+00	0.000E+00	-0.003
BA-133	1.049E+01	3.747E+00	5.936E+00	0.000E+00	1.767
CS-134	1.057E+01	2.589E+00	4.863E+00	0.000E+00	2.173
CS-136	-3.331E+00	3.734E+00	5.873E+00	0.000E+00	-0.567
CS-137	-4.837E-01	2.466E+00	4.003E+00	0.000E+00	-0.121
CE-139	1.443E+00	2.252E+00	3.814E+00	0.000E+00	0.378
BA-140	8.114E+00	1.368E+01	2.329E+01	0.000E+00	0.348
LA-140	-5.907E-02	4.500E+00	7.388E+00	0.000E+00	-0.008
CE-141	-1.278E-02	5.433E+00	7.492E+00	0.000E+00	-0.002
CE-144	-9.059E+00	2.085E+01	2.843E+01	0.000E+00	-0.319
EU-152	-3.049E+00	8.366E+00	1.155E+01	0.000E+00	-0.264
EU-154	-8.366E-01	4.668E+00	7.593E+00	0.000E+00	-0.110
RA-226	-3.483E+01	5.778E+01	9.300E+01	0.000E+00	-0.375
AC-228	1.814E+00	9.592E+00	1.530E+01	0.000E+00	0.119
TH-228	2.947E+00	4.659E+00	7.648E+00	0.000E+00	0.385
TH-232	1.807E+00	9.557E+00	1.524E+01	0.000E+00	0.119
U-235	1.710E+01	1.998E+01	2.844E+01	0.000E+00	0.601
U-238	1.030E+02	2.423E+02	4.056E+02	0.000E+00	0.254
AM-241	-2.103E+01	2.355E+01	3.402E+01	0.000E+00	-0.618

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A,07L28841-5        ,06/11/2006 14:52,05/31/2006 11:30,    2.971E+00,WG L28841-5 TM
B,07L28841-5        ,LIBD                ,06/07/2006 09:32,073L082504
C,K-40     ,YES,    3.432E+01,   4.006E+01,   3.337E+01,,    1.028
C,BE-7     ,NO ,    1.196E+01,   2.146E+01,   3.574E+01,,    0.335
C,CR-51    ,NO ,   -4.002E+01,   2.463E+01,   3.893E+01,,   -1.028
C,MN-54    ,NO ,    3.469E-01,   2.283E+00,   3.802E+00,,    0.091
C,CO-57    ,NO ,    2.334E-01,   2.263E+00,   3.707E+00,,    0.063
C,CO-58    ,NO ,   -3.198E-01,   2.472E+00,   4.065E+00,,   -0.079
C,FE-59    ,NO ,    9.987E-01,   4.779E+00,   8.016E+00,,    0.125
C,CO-60    ,NO ,   -2.295E-02,   2.330E+00,   3.802E+00,,   -0.006
C,ZN-65    ,NO ,    8.781E+00,   5.167E+00,   9.314E+00,,    0.943
C,SE-75    ,NO ,   -3.244E+00,   3.157E+00,   4.992E+00,,   -0.650
C,SR-85    ,NO ,    2.117E+01,   3.055E+00,   6.023E+00,,    3.515
C,Y-88     ,NO ,   -1.242E+00,   2.629E+00,   4.183E+00,,   -0.297
C,NB-94    ,NO ,    1.396E+00,   2.261E+00,   3.795E+00,,    0.368
C,NB-95    ,NO ,    2.545E+00,   2.468E+00,   4.299E+00,,    0.592
C,ZR-95    ,NO ,   -2.953E+00,   4.357E+00,   6.814E+00,,   -0.433
C,MO-99    ,NO ,    1.726E+02,   2.560E+02,   4.314E+02,,    0.400
C,RU-103   ,NO ,    1.846E-01,   2.725E+00,   4.438E+00,,    0.042
C,RU-106   ,NO ,    3.291E+00,   2.164E+01,   3.584E+01,,    0.092
C,AG-110m  ,NO ,    6.202E-01,   2.252E+00,   3.740E+00,,    0.166
C,SN-113   ,NO ,    3.264E-01,   3.034E+00,   5.016E+00,,    0.065
C,SB-124   ,NO ,    2.299E+00,   2.517E+00,   4.304E+00,,    0.534
C,SB-125   ,NO ,   -3.571E+00,   6.750E+00,   1.084E+01,,   -0.329
C,TE-129M  ,NO ,    1.057E+01,   3.238E+01,   5.351E+01,,    0.198
C,I-131    ,NO ,   -2.524E-02,   5.706E+00,   9.434E+00,,   -0.003
C,BA-133   ,NO ,    1.049E+01,   3.747E+00,   5.936E+00,,    1.767
C,CS-134   ,NO ,    1.057E+01,   2.589E+00,   4.863E+00,,    2.173
C,CS-136   ,NO ,   -3.331E+00,   3.734E+00,   5.873E+00,,   -0.567
C,CS-137   ,NO ,   -4.837E-01,   2.466E+00,   4.003E+00,,   -0.121
C,CE-139   ,NO ,    1.443E+00,   2.252E+00,   3.814E+00,,    0.378
C,BA-140   ,NO ,    8.114E+00,   1.368E+01,   2.329E+01,,    0.348
C,LA-140   ,NO ,   -5.907E-02,   4.500E+00,   7.388E+00,,   -0.008
C,CE-141   ,NO ,   -1.278E-02,   5.433E+00,   7.492E+00,,   -0.002
C,CE-144   ,NO ,   -9.059E+00,   2.085E+01,   2.843E+01,,   -0.319
C,EU-152   ,NO ,   -3.049E+00,   8.366E+00,   1.155E+01,,   -0.264
C,EU-154   ,NO ,   -8.366E-01,   4.668E+00,   7.593E+00,,   -0.110
C,RA-226   ,NO ,   -3.483E+01,   5.778E+01,   9.300E+01,,   -0.375
C,AC-228   ,NO ,    1.814E+00,   9.592E+00,   1.530E+01,,    0.119
C,TH-228   ,NO ,    2.947E+00,   4.659E+00,   7.648E+00,,    0.385
C,TH-232   ,NO ,    1.807E+00,   9.557E+00,   1.524E+01,,    0.119
C,U-235    ,NO ,    1.710E+01,   1.998E+01,   2.844E+01,,    0.601
C,U-238    ,NO ,    1.030E+02,   2.423E+02,   4.056E+02,,    0.254
C,AM-241   ,NO ,   -2.103E+01,   2.355E+01,   3.402E+01,,   -0.618
```

Sec. Review: Analyst: KO LIMS: ✓

==========
VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 15:43:53.46
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 11-JUN-2006 09:52:47.09

LIMS No., Customer Name, Client ID: WG L28841-6 TMI

Sample ID : 11L28841-6
Sample Type : WG
Quantity : 3.01430E+00 L
Start Channel : 40
End Channel : 4090
MDA Constant : 0.00

Energy Tol : 1.00000
Pk Srch Sens: 5.00000
Library Used: LIBD

Smple Date: 30-MAY-2006 16:15:00.
Geometry : 113L082304
BKGFILE : 11BG060306MT
Real Time : 0 05:51:02.80
Live time : 0 05:50:55.31

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	92.64*	13	602	1.38	184.44	1.46E+00	6.05E-04	390.6	
2	0	139.93*	91	498	0.97	279.30	1.90E+00	4.31E-03	48.2	
3	0	198.54	185	564	1.52	396.84	1.75E+00	8.80E-03	25.9	
4	0	294.80*	73	309	1.89	589.82	1.37E+00	3.46E-03	49.3	
5	0	351.81*	132	278	1.70	704.08	1.20E+00	6.25E-03	29.2	
6	0	596.15	83	196	1.39	1193.53	8.03E-01	3.93E-03	38.4	
7	0	609.03*	211	175	1.75	1219.32	7.90E-01	1.00E-02	17.4	
8	0	911.68*	17	52	1.10	1824.96	5.74E-01	8.15E-04	123.7	
9	0	1120.94*	3	78	1.39	2243.32	4.86E-01	1.48E-04	618.9	
10	0	1460.61*	7	55	1.50	2921.71	3.92E-01	3.10E-04	323.5	
11	0	1762.40*	34	36	1.80	3523.78	3.39E-01	1.63E-03	55.0	
12	0	1916.08	26	9	1.29	3830.11	3.19E-01	1.22E-03	31.8	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	7	10.67*	3.919E-01	6.656E+00	6.656E+00	647.05
AC-228	835.50	------	1.75	6.158E-01	------	Line Not Found	------
	911.07	17	27.70*	5.742E-01	4.591E+00	4.609E+00	247.42

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 11L28841-6

Acquisition date : 11-JUN-2006 09:52:47

Total number of lines in spectrum	12	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	2	16.67%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	6.656E+00	6.656E+00	43.07E+00	647.05	
AC-228	5.75Y	1.00	4.591E+00	4.609E+00	11.40E+00	247.42	
			---	---			
Total Activity :			1.125E+01	1.127E+01			

Grand Total Activity : 1.125E+01 1.127E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 11L28841-6

Acquisition date : 11-JUN-2006 09:52:47

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	92.64	13	602	1.38	184.44	180	9	6.05E-04	****	1.46E+00	
0	139.93	91	498	0.97	279.30	276	8	4.31E-03	96.4	1.90E+00	
0	198.54	185	564	1.52	396.84	391	11	8.80E-03	51.8	1.75E+00	
0	294.80	73	309	1.89	589.82	586	9	3.46E-03	98.5	1.37E+00	
0	351.81	132	278	1.70	704.08	698	11	6.25E-03	58.4	1.20E+00	
0	596.15	83	196	1.39	1193.53	1187	15	3.93E-03	76.8	8.03E-01	
0	609.03	211	175	1.75	1219.32	1211	18	1.00E-02	34.8	7.90E-01	
0	1120.94	3	78	1.39	2243.32	2236	12	1.48E-04	****	4.86E-01	
0	1762.40	34	36	1.80	3523.78	3516	18	1.63E-03	****	3.39E-01	
0	1916.08	26	9	1.29	3830.11	3824	13	1.22E-03	63.5	3.19E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	12	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	2	16.67%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	6.656E+00	6.656E+00	43.07E+00	647.05	
AC-228	5.75Y	1.00	4.591E+00	4.609E+00	11.40E+00	247.42	
			---	---			
Total Activity :			1.125E+01	1.127E+01			

Grand Total Activity : 1.125E+01 1.127E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	6.656E+00	4.307E+01	4.106E+01	0.000E+00	0.162
AC-228	4.609E+00	1.140E+01	1.523E+01	0.000E+00	0.303

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA

BE-7	-2.922E+00	2.484E+01	4.034E+01	0.000E+00	-0.072
NA-24	-1.137E+00	7.461E-01	Half-Life too short		
CR-51	-3.652E+01	2.871E+01	4.560E+01	0.000E+00	-0.801
MN-54	1.530E+00	2.475E+00	4.196E+00	0.000E+00	0.365
CO-57	-1.228E+00	2.617E+00	4.272E+00	0.000E+00	-0.288
CO-58	-2.165E+00	2.672E+00	4.172E+00	0.000E+00	-0.519
FE-59	4.785E+00	5.514E+00	9.628E+00	0.000E+00	0.497
CO-60	1.319E+00	2.670E+00	4.541E+00	0.000E+00	0.291
ZN-65	9.423E+00	6.387E+00	1.012E+01	0.000E+00	0.931
SE-75	3.791E-01	3.685E+00	6.150E+00	0.000E+00	0.062
SR-85	1.888E+01	3.450E+00	6.540E+00	0.000E+00	2.886
Y-88	-1.107E+00	3.118E+00	4.969E+00	0.000E+00	-0.223
NB-94	2.695E+00	2.557E+00	4.421E+00	0.000E+00	0.610
NB-95	8.213E-01	2.771E+00	4.626E+00	0.000E+00	0.178
ZR-95	-4.210E-01	4.788E+00	7.837E+00	0.000E+00	-0.054
MO-99	-2.995E+01	3.720E+02	6.099E+02	0.000E+00	-0.049
RU-103	4.267E+00	3.121E+00	5.371E+00	0.000E+00	0.794
RU-106	9.968E+00	2.430E+01	3.891E+01	0.000E+00	0.256
AG-110m	1.037E-01	2.561E+00	4.246E+00	0.000E+00	0.024
SN-113	2.180E+00	3.712E+00	6.223E+00	0.000E+00	0.350
SB-124	3.403E+00	6.264E+00	4.916E+00	0.000E+00	0.692
SB-125	1.722E+00	7.435E+00	1.229E+01	0.000E+00	0.140
TE-129M	1.238E+00	3.779E+01	6.183E+01	0.000E+00	0.020
I-131	-2.089E-01	7.328E+00	1.206E+01	0.000E+00	-0.017
BA-133	8.617E+00	4.345E+00	6.621E+00	0.000E+00	1.301
CS-134	1.033E+01	5.702E+00	5.271E+00	0.000E+00	1.960
CS-136	8.993E-01	4.279E+00	7.102E+00	0.000E+00	0.127
CS-137	4.091E-01	2.830E+00	4.712E+00	0.000E+00	0.087
CE-139	1.837E+00	2.705E+00	4.495E+00	0.000E+00	0.409
BA-140	9.701E+00	1.752E+01	2.915E+01	0.000E+00	0.333
LA-140	6.613E-01	5.318E+00	8.917E+00	0.000E+00	0.074
CE-141	2.477E+00	6.376E+00	8.994E+00	0.000E+00	0.275
CE-144	8.110E+00	2.373E+01	3.349E+01	0.000E+00	0.242
EU-152	-1.164E+01	1.024E+01	1.354E+01	0.000E+00	-0.859
EU-154	-1.867E+00	5.358E+00	8.766E+00	0.000E+00	-0.213
RA-226	1.601E+01	6.964E+01	1.082E+02	0.000E+00	0.148
TH-228	9.198E+00	5.592E+00	8.834E+00	0.000E+00	1.041
TH-232	4.591E+00 +	1.136E+01	1.630E+01	0.000E+00	0.282
U-235	4.105E+01	2.287E+01	3.370E+01	0.000E+00	1.218
U-238	1.839E+02	2.844E+02	4.904E+02	0.000E+00	0.375
AM-241	-6.177E+01	3.470E+01	5.446E+01	0.000E+00	-1.134

```
A,11L28841-6        ,06/11/2006 15:43,05/30/2006 16:15,   3.014E+00,WG L28841-6 TM
B,11L28841-6        ,LIBD                              ,06/07/2006 09:40,113L082304
C,K-40      ,YES,   6.656E+00,   4.307E+01,   4.106E+01,,    0.162
C,AC-228    ,YES,   4.609E+00,   1.140E+01,   1.523E+01,,    0.303
C,BE-7      ,NO ,  -2.922E+00,   2.484E+01,   4.034E+01,,   -0.072
C,CR-51     ,NO ,  -3.652E+01,   2.871E+01,   4.560E+01,,   -0.801
C,MN-54     ,NO ,   1.530E+00,   2.475E+00,   4.196E+00,,    0.365
C,CO-57     ,NO ,  -1.228E+00,   2.617E+00,   4.272E+00,,   -0.288
C,CO-58     ,NO ,  -2.165E+00,   2.672E+00,   4.172E+00,,   -0.519
C,FE-59     ,NO ,   4.785E+00,   5.514E+00,   9.628E+00,,    0.497
C,CO-60     ,NO ,   1.319E+00,   2.670E+00,   4.541E+00,,    0.291
C,ZN-65     ,NO ,   9.423E+00,   6.387E+00,   1.012E+01,,    0.931
C,SE-75     ,NO ,   3.791E-01,   3.685E+00,   6.150E+00,,    0.062
C,SR-85     ,NO ,   1.888E+01,   3.450E+00,   6.540E+00,,    2.886
C,Y-88      ,NO ,  -1.107E+00,   3.118E+00,   4.969E+00,,   -0.223
C,NB-94     ,NO ,   2.695E+00,   2.557E+00,   4.421E+00,,    0.610
C,NB-95     ,NO ,   8.213E-01,   2.771E+00,   4.626E+00,,    0.178
C,ZR-95     ,NO ,  -4.210E-01,   4.788E+00,   7.837E+00,,   -0.054
C,MO-99     ,NO ,  -2.995E+01,   3.720E+02,   6.099E+02,,   -0.049
C,RU-103    ,NO ,   4.267E+00,   3.121E+00,   5.371E+00,,    0.794
C,RU-106    ,NO ,   9.968E+00,   2.430E+01,   3.891E+01,,    0.256
C,AG-110m   ,NO ,   1.037E-01,   2.561E+00,   4.246E+00,,    0.024
C,SN-113    ,NO ,   2.180E+00,   3.712E+00,   6.223E+00,,    0.350
C,SB-124    ,NO ,   3.403E+00,   6.264E+00,   4.916E+00,,    0.692
C,SB-125    ,NO ,   1.722E+00,   7.435E+00,   1.229E+01,,    0.140
C,TE-129M   ,NO ,   1.238E+00,   3.779E+01,   6.183E+01,,    0.020
C,I-131     ,NO ,  -2.089E-01,   7.328E+00,   1.206E+01,,   -0.017
C,BA-133    ,NO ,   8.617E+00,   4.345E+00,   6.621E+00,,    1.301
C,CS-134    ,NO ,   1.033E+01,   5.702E+00,   5.271E+00,,    1.960
C,CS-136    ,NO ,   8.993E-01,   4.279E+00,   7.102E+00,,    0.127
C,CS-137    ,NO ,   4.091E-01,   2.830E+00,   4.712E+00,,    0.087
C,CE-139    ,NO ,   1.837E+00,   2.705E+00,   4.495E+00,,    0.409
C,BA-140    ,NO ,   9.701E+00,   1.752E+01,   2.915E+01,,    0.333
C,LA-140    ,NO ,   6.613E-01,   5.318E+00,   8.917E+00,,    0.074
C,CE-141    ,NO ,   2.477E+00,   6.376E+00,   8.994E+00,,    0.275
C,CE-144    ,NO ,   8.110E+00,   2.373E+01,   3.349E+01,,    0.242
C,EU-152    ,NO ,  -1.164E+01,   1.024E+01,   1.354E+01,,   -0.859
C,EU-154    ,NO ,  -1.867E+00,   5.358E+00,   8.766E+00,,   -0.213
C,RA-226    ,NO ,   1.601E+01,   6.964E+01,   1.082E+02,,    0.148
C,TH-228    ,NO ,   9.198E+00,   5.592E+00,   8.834E+00,,    1.041
C,TH-232    ,NO ,   4.591E+00,   1.136E+01,   1.630E+01,,    0.282
C,U-235     ,NO ,   4.105E+01,   2.287E+01,   3.370E+01,,    1.218
C,U-238     ,NO ,   1.839E+02,   2.844E+02,   4.904E+02,,    0.375
C,AM-241    ,NO ,  -6.177E+01,   3.470E+01,   5.446E+01,,   -1.134
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 12-JUN-2006 00:15:31.61
TBE23 03017322 HpGe ********** Aquisition Date/Time: 11-JUN-2006 09:52:43.65

LIMS No., Customer Name, Client ID: WG L28841-7 TMI

Sample ID : 23L28841-7
Sample Type : WG
Quantity : 3.03750E+00 L
Start Channel : 50 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 31-MAY-2006 14:20:00.
Geometry : 233L082404
BKGFILE : 23BG060306MT
Real Time : 0 05:00:12.65
Live time : 0 05:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	3	33.57*	52	48	1.20	67.47	7.94E-02	2.91E-03	47.6	1.32E+01
2	0	63.52*	11	836	1.08	127.32	1.05E+00	6.37E-04	504.7	0.00E+00
3	0	92.67*	40	879	1.28	185.57	1.94E+00	2.20E-03	155.3	
4	0	139.40*	91	781	1.46	278.98	2.32E+00	5.07E-03	59.3	
5	0	185.31*	45	641	1.41	370.72	2.18E+00	2.49E-03	123.3	
6	0	198.25*	131	626	1.09	396.59	2.11E+00	7.27E-03	38.7	
7	0	238.81*	17	456	1.01	477.66	1.90E+00	9.40E-04	264.3	
8	0	294.72*	86	279	1.02	589.41	1.64E+00	4.80E-03	39.9	
9	0	351.36*	113	244	1.42	702.62	1.44E+00	6.29E-03	31.4	
10	0	583.49*	86	154	2.06	1166.68	9.71E-01	4.75E-03	37.6	
11	0	595.76	51	118	1.41	1191.20	9.56E-01	2.82E-03	42.7	
12	0	608.97*	87	105	1.21	1217.62	9.41E-01	4.83E-03	29.7	
13	0	910.51*	42	72	1.10	1820.55	7.09E-01	2.31E-03	49.7	
14	0	1120.22*	37	51	1.59	2239.96	6.16E-01	2.07E-03	50.3	
15	0	1764.81*	11	25	2.62	3529.53	4.38E-01	5.99E-04	127.9	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
RA-226	186.21	45	3.28*	2.176E+00	3.106E+01	3.106E+01	246.58
AC-228	835.50	------	1.75	7.515E-01	------	Line Not Found	------
	911.07	42	27.70*	7.087E-01	1.048E+01	1.052E+01	99.43
TH-228	238.63	17	44.60*	1.899E+00	9.880E-01	9.987E-01	528.61
	240.98	------	3.95	1.888E+00	------	Line Not Found	------
TH-232	583.14	86	30.25	9.709E-01	1.440E+01	1.440E+01	75.23
	911.07	42	27.70*	7.087E-01	1.048E+01	1.048E+01	99.43
	969.11	------	16.60	6.793E-01	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L28841-7

Acquisition date : 11-JUN-2006 09:52:43

Total number of lines in spectrum	15	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	4	26.67%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
RA-226	1600.00Y	1.00	3.106E+01	3.106E+01	7.658E+01	246.58	
AC-228	5.75Y	1.00	1.048E+01	1.052E+01	1.046E+01	99.43	
TH-228	1.91Y	1.01	9.880E-01	9.987E-01	52.79E-01	528.61	
TH-232	1.41E+10Y	1.00	1.048E+01	1.048E+01	1.042E+01	99.43	
			---	---			
	Total Activity :		5.301E+01	5.306E+01			

Grand Total Activity : 5.301E+01 5.306E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 23L28841-7

Acquisition date : 11-JUN-2006 09:52:43

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	33.57	52	48	1.20	67.47	64	14	2.91E-03	95.3	7.94E-02	
0	63.52	11	836	1.08	127.32	122	10	6.37E-04	****	1.05E+00	
0	92.67	40	879	1.28	185.57	181	10	2.20E-03	****	1.94E+00	
0	139.40	91	781	1.46	278.98	275	9	5.07E-03	****	2.32E+00	
0	198.25	131	626	1.09	396.59	392	10	7.27E-03	77.5	2.11E+00	
0	294.72	86	279	1.02	589.41	585	9	4.80E-03	79.9	1.64E+00	
0	351.36	113	244	1.42	702.62	698	11	6.29E-03	62.7	1.44E+00	
0	595.76	51	118	1.41	1191.20	1185	10	2.82E-03	85.5	9.56E-01	
0	608.97	87	105	1.21	1217.62	1213	10	4.83E-03	59.4	9.41E-01	
0	1120.22	37	51	1.59	2239.96	2233	14	2.07E-03	****	6.16E-01	
0	1764.81	11	25	2.62	3529.53	3525	12	5.99E-04	****	4.38E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	15	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	4	26.67%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
RA-226	1600.00Y	1.00	3.106E+01	3.106E+01	7.658E+01	246.58	
TH-228	1.91Y	1.01	9.880E-01	9.987E-01	52.79E-01	528.61	
TH-232	1.41E+10Y	1.00	1.236E+01	1.236E+01	0.751E+01	60.74	
		Total Activity :	4.441E+01	4.442E+01			

Grand Total Activity : 4.441E+01 4.442E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

Interfering Nuclide	Interfering Line	Interfered Nuclide	Interfered Line
TH-232	911.07	AC-228	911.07

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
RA-226	3.106E+01	7.658E+01	1.061E+02	0.000E+00	0.293
TH-228	9.987E-01	5.279E+00	7.956E+00	0.000E+00	0.126
TH-232	1.236E+01	7.510E+00	1.464E+01	0.000E+00	0.845

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	9.010E+00		2.252E+01	3.874E+01	0.000E+00	0.233
NA-24	-1.895E-01		2.197E-01	Half-Life too short		
K-40	-4.753E+01		3.768E+01	7.006E+01	0.000E+00	-0.678
CR-51	-2.756E+01		2.783E+01	4.588E+01	0.000E+00	-0.601
MN-54	2.667E+00		2.359E+00	4.293E+00	0.000E+00	0.621
CO-57	-1.908E+00		2.769E+00	4.584E+00	0.000E+00	-0.416
CO-58	-1.552E+00		2.564E+00	4.257E+00	0.000E+00	-0.365
FE-59	1.474E+00		4.960E+00	8.825E+00	0.000E+00	0.167
CO-60	1.890E+00		2.446E+00	4.486E+00	0.000E+00	0.421
ZN-65	1.062E+01		6.113E+00	1.027E+01	0.000E+00	1.034
SE-75	-2.816E+00		3.597E+00	6.004E+00	0.000E+00	-0.469
SR-85	1.535E+01		3.075E+00	5.967E+00	0.000E+00	2.572
Y-88	-2.956E+00		2.729E+00	4.367E+00	0.000E+00	-0.677
NB-94	4.470E-01		2.390E+00	4.140E+00	0.000E+00	0.108
NB-95	5.019E-01		2.474E+00	4.305E+00	0.000E+00	0.117
ZR-95	4.454E+00		4.369E+00	7.937E+00	0.000E+00	0.561
MO-99	2.863E+02		2.729E+02	4.943E+02	0.000E+00	0.579
RU-103	1.057E+00		3.148E+00	5.370E+00	0.000E+00	0.197
RU-106	-1.577E+00		2.299E+01	3.954E+01	0.000E+00	-0.040
AG-110m	-1.408E+00		2.340E+00	3.919E+00	0.000E+00	-0.359
SN-113	-3.458E+00		3.526E+00	5.766E+00	0.000E+00	-0.600
SB-124	-4.267E+00		6.803E+00	4.477E+00	0.000E+00	-0.953
SB-125	8.822E-02		7.226E+00	1.223E+01	0.000E+00	0.007
TE-129M	3.686E+01		3.456E+01	6.081E+01	0.000E+00	0.606
I-131	-4.718E-01		6.401E+00	1.083E+01	0.000E+00	-0.044
BA-133	5.044E+00		4.016E+00	6.116E+00	0.000E+00	0.825
CS-134	4.914E+00		4.188E+00	5.064E+00	0.000E+00	0.970
CS-136	3.402E+00		3.846E+00	6.951E+00	0.000E+00	0.489
CS-137	1.897E+00		2.564E+00	4.577E+00	0.000E+00	0.414
CE-139	-1.545E-02		2.838E+00	4.729E+00	0.000E+00	-0.003
BA-140	1.553E+01		1.544E+01	2.719E+01	0.000E+00	0.571
LA-140	1.042E+00		5.028E+00	9.011E+00	0.000E+00	0.116
CE-141	2.931E+00		6.662E+00	9.567E+00	0.000E+00	0.306
CE-144	-9.671E+00		2.543E+01	3.574E+01	0.000E+00	-0.271
EU-152	6.658E+00		9.299E+00	1.380E+01	0.000E+00	0.483
EU-154	-2.876E+00		5.693E+00	9.455E+00	0.000E+00	-0.304
AC-228	1.052E+01		1.046E+01	1.655E+01	0.000E+00	0.636
U-235	1.271E+01		2.548E+01	3.574E+01	0.000E+00	0.356
U-238	1.489E+02		2.644E+02	4.527E+02	0.000E+00	0.329
AM-241	3.526E+01		1.701E+01	2.538E+01	0.000E+00	1.389

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A,23L28841-7        ,06/12/2006 00:15,05/31/2006 14:20,   3.037E+00,WG L28841-7 TM
B,23L28841-7        ,LIBD                ,06/01/2006 10:14,233L082404
C,RA-226   ,YES,  3.106E+01,  7.658E+01,  1.061E+02,,   0.293
C,TH-228   ,YES,  9.987E-01,  5.279E+00,  7.956E+00,,   0.126
C,TH-232   ,YES,  1.236E+01,  7.510E+00,  1.464E+01,,   0.845
C,BE-7     ,NO ,  9.010E+00,  2.252E+01,  3.874E+01,,   0.233
C,K-40     ,NO , -4.753E+01,  3.768E+01,  7.006E+01,,  -0.678
C,CR-51    ,NO , -2.756E+01,  2.783E+01,  4.588E+01,,  -0.601
C,MN-54    ,NO ,  2.667E+00,  2.359E+00,  4.293E+00,,   0.621
C,CO-57    ,NO , -1.908E+00,  2.769E+00,  4.584E+00,,  -0.416
C,CO-58    ,NO , -1.552E+00,  2.564E+00,  4.257E+00,,  -0.365
C,FE-59    ,NO ,  1.474E+00,  4.960E+00,  8.825E+00,,   0.167
C,CO-60    ,NO ,  1.890E+00,  2.446E+00,  4.486E+00,,   0.421
C,ZN-65    ,NO ,  1.062E+01,  6.113E+00,  1.027E+01,,   1.034
C,SE-75    ,NO , -2.816E+00,  3.597E+00,  6.004E+00,,  -0.469
C,SR-85    ,NO ,  1.535E+01,  3.075E+00,  5.967E+00,,   2.572
C,Y-88     ,NO , -2.956E+00,  2.729E+00,  4.367E+00,,  -0.677
C,NB-94    ,NO ,  4.470E-01,  2.390E+00,  4.140E+00,,   0.108
C,NB-95    ,NO ,  5.019E-01,  2.474E+00,  4.305E+00,,   0.117
C,ZR-95    ,NO ,  4.454E+00,  4.369E+00,  7.937E+00,,   0.561
C,MO-99    ,NO ,  2.863E+02,  2.729E+02,  4.943E+02,,   0.579
C,RU-103   ,NO ,  1.057E+00,  3.148E+00,  5.370E+00,,   0.197
C,RU-106   ,NO , -1.577E+00,  2.299E+01,  3.954E+01,,  -0.040
C,AG-110m  ,NO , -1.408E+00,  2.340E+00,  3.919E+00,,  -0.359
C,SN-113   ,NO , -3.458E+00,  3.526E+00,  5.766E+00,,  -0.600
C,SB-124   ,NO , -4.267E+00,  6.803E+00,  4.477E+00,,  -0.953
C,SB-125   ,NO ,  8.822E-02,  7.226E+00,  1.223E+01,,   0.007
C,TE-129M  ,NO ,  3.686E+01,  3.456E+01,  6.081E+01,,   0.606
C,I-131    ,NO , -4.718E-01,  6.401E+00,  1.083E+01,,  -0.044
C,BA-133   ,NO ,  5.044E+00,  4.016E+00,  6.116E+00,,   0.825
C,CS-134   ,NO ,  4.914E+00,  4.188E+00,  5.064E+00,,   0.970
C,CS-136   ,NO ,  3.402E+00,  3.846E+00,  6.951E+00,,   0.489
C,CS-137   ,NO ,  1.897E+00,  2.564E+00,  4.577E+00,,   0.414
C,CE-139   ,NO , -1.545E-02,  2.838E+00,  4.729E+00,,  -0.003
C,BA-140   ,NO ,  1.553E+01,  1.544E+01,  2.719E+01,,   0.571
C,LA-140   ,NO ,  1.042E+00,  5.028E+00,  9.011E+00,,   0.116
C,CE-141   ,NO ,  2.931E+00,  6.662E+00,  9.567E+00,,   0.306
C,CE-144   ,NO , -9.671E+00,  2.543E+01,  3.574E+01,,  -0.271
C,EU-152   ,NO ,  6.658E+00,  9.299E+00,  1.380E+01,,   0.483
C,EU-154   ,NO , -2.876E+00,  5.693E+00,  9.455E+00,,  -0.304
C,AC-228   ,NO ,  1.052E+01,  1.046E+01,  1.655E+01,,   0.636
C,U-235    ,NO ,  1.271E+01,  2.548E+01,  3.574E+01,,   0.356
C,U-238    ,NO ,  1.489E+02,  2.644E+02,  4.527E+02,,   0.329
C,AM-241   ,NO ,  3.526E+01,  1.701E+01,  2.538E+01,,   1.389
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 23:07:13.38
TBE04 P-40312B HpGe ********** Aquisition Date/Time: 11-JUN-2006 16:18:36.53

LIMS No., Customer Name, Client ID: WG L28841-8 EXELON TMI

Sample ID : 04L28841-8
Sample Type : WG
Quantity : 3.05580E+00 L
Start Channel : 90 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 7.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 1-JUN-2006 11:15:00.0
Geometry : 043L082004
BKGFILE : 04BG060305MT
Real Time : 0 06:37:15.26
Live time : 0 06:37:11.20

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.37*	156	578	1.14	133.19	6.65E-01	6.53E-03	27.9	2.57E+00
2	1	93.43*	34	674	1.76	187.32	1.55E+00	1.41E-03	160.8	5.51E+00
3	1	139.93*	137	590	1.00	280.30	2.04E+00	5.74E-03	32.8	1.39E+00
4	1	186.15*	19	529	1.22	372.72	1.92E+00	7.88E-04	240.4	1.87E+00
5	1	198.29*	169	483	1.69	396.99	1.87E+00	7.08E-03	25.8	2.01E+00
6	1	352.02*	13	356	2.65	704.41	1.28E+00	5.66E-04	319.5	6.42E+00
7	1	595.91	115	167	1.86	1192.06	8.63E-01	4.84E-03	24.8	1.09E+00
8	1	609.56*	24	163	1.42	1219.35	8.48E-01	9.94E-04	131.8	1.27E+00
9	1	1461.49*	3	96	2.57	2922.35	4.29E-01	1.32E-04	925.3	1.78E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	3	10.67*	4.294E-01	2.552E+00	2.552E+00	1850.54
RA-226	186.21	19	3.28*	1.920E+00	1.107E+01	1.107E+01	480.75
U-235	143.76	------	10.50*	2.041E+00	------	Line Not Found	------
	163.35	------	4.70	2.007E+00	------	Line Not Found	------
	185.71	19	54.00	1.920E+00	6.722E-01	6.722E-01	480.75
	205.31	------	4.70	1.833E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 04L28841-8

Acquisition date : 11-JUN-2006 16:18:36

Total number of lines in spectrum	9	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	2	22.22%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.552E+00	2.552E+00	47.22E+00	1850.54	
RA-226	1600.00Y	1.00	1.107E+01	1.107E+01	5.320E+01	480.75	
U-235	7.04E+08Y	1.00	6.722E-01	6.722E-01	32.32E-01	480.75	K
			---	---			
	Total Activity :		1.429E+01	1.429E+01			

Grand Total Activity : 1.429E+01 1.429E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 04L28841-8

Acquisition date : 11-JUN-2006 16:18:36

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.37	156	578	1.14	133.19	130	7	6.53E-03	55.7	6.65E-01	
1	93.43	34	674	1.76	187.32	181	11	1.41E-03	****	1.55E+00	
1	139.93	137	590	1.00	280.30	277	8	5.74E-03	65.5	2.04E+00	
1	198.29	169	483	1.69	396.99	393	9	7.08E-03	51.6	1.87E+00	
1	352.02	13	356	2.65	704.41	699	13	5.66E-04	****	1.28E+00	
1	595.91	115	167	1.86	1192.06	1186	13	4.84E-03	49.6	8.63E-01	
1	609.56	24	163	1.42	1219.35	1214	12	9.94E-04	****	8.48E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	9	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	2	22.22%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.552E+00	2.552E+00	47.22E+00	1850.54	
RA-226	1600.00Y	1.00	1.107E+01	1.107E+01	5.320E+01	480.75	
		Total Activity :	1.362E+01	1.362E+01			

Grand Total Activity : 1.362E+01 1.362E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	2.552E+00	4.722E+01	3.770E+01	0.000E+00	0.068
RA-226	1.107E+01	5.320E+01	7.688E+01	0.000E+00	0.144

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	5.323E+00		2.036E+01	3.400E+01	0.000E+00	0.157
NA-24	-1.437E-01		1.131E-01	Half-Life too short		

CR-51	-2.412E+01	2.224E+01	3.533E+01	0.000E+00	-0.683
MN-54	-7.126E-01	2.173E+00	3.482E+00	0.000E+00	-0.205
CO-57	1.436E-01	1.901E+00	3.189E+00	0.000E+00	0.045
CO-58	-2.006E+00	2.367E+00	3.694E+00	0.000E+00	-0.543
FE-59	3.778E+00	4.906E+00	8.388E+00	0.000E+00	0.450
CO-60	-4.608E-01	2.650E+00	4.378E+00	0.000E+00	-0.105
ZN-65	2.439E+00	5.008E+00	8.412E+00	0.000E+00	0.290
SE-75	3.856E-01	2.911E+00	4.862E+00	0.000E+00	0.079
SR-85	1.902E+01	2.827E+00	5.524E+00	0.000E+00	3.443
Y-88	-7.746E-01	2.469E+00	3.921E+00	0.000E+00	-0.198
NB-94	-8.769E-02	2.123E+00	3.501E+00	0.000E+00	-0.025
NB-95	1.600E+00	2.314E+00	3.931E+00	0.000E+00	0.407
ZR-95	-2.387E+00	4.169E+00	6.652E+00	0.000E+00	-0.359
MO-99	2.138E+02	2.143E+02	3.699E+02	0.000E+00	0.578
RU-103	2.709E+00	2.619E+00	4.485E+00	0.000E+00	0.604
RU-106	-2.023E+01	2.057E+01	3.123E+01	0.000E+00	-0.648
AG-110m	-9.446E-01	2.060E+00	3.345E+00	0.000E+00	-0.282
SN-113	-9.380E-01	2.880E+00	4.625E+00	0.000E+00	-0.203
SB-124	-1.253E+00	5.464E+00	3.785E+00	0.000E+00	-0.331
SB-125	2.029E+00	5.883E+00	9.918E+00	0.000E+00	0.205
TE-129M	2.051E+00	2.965E+01	4.926E+01	0.000E+00	0.042
I-131	7.676E-01	4.968E+00	8.159E+00	0.000E+00	0.094
BA-133	7.021E+00	3.383E+00	5.172E+00	0.000E+00	1.357
CS-134	2.960E+00	5.001E+00	3.952E+00	0.000E+00	0.749
CS-136	-1.417E+00	3.670E+00	5.873E+00	0.000E+00	-0.241
CS-137	1.416E+00	2.302E+00	3.926E+00	0.000E+00	0.361
CE-139	2.446E+00	2.020E+00	3.428E+00	0.000E+00	0.714
BA-140	-1.842E+00	1.267E+01	2.065E+01	0.000E+00	-0.089
LA-140	5.144E+00	4.343E+00	7.805E+00	0.000E+00	0.659
CE-141	1.130E+00	4.735E+00	6.779E+00	0.000E+00	0.167
CE-144	-6.754E+00	1.667E+01	2.437E+01	0.000E+00	-0.277
EU-152	-7.168E+00	7.888E+00	1.046E+01	0.000E+00	-0.685
EU-154	-8.420E-01	3.934E+00	6.553E+00	0.000E+00	-0.128
AC-228	7.313E+00	8.605E+00	1.500E+01	0.000E+00	0.488
TH-228	3.393E+00	4.108E+00	7.025E+00	0.000E+00	0.483
TH-232	7.288E+00	8.576E+00	1.495E+01	0.000E+00	0.488
U-235	1.821E+01	1.760E+01	2.562E+01	0.000E+00	0.711
U-238	-3.319E+01	2.338E+02	3.820E+02	0.000E+00	-0.087
AM-241	-2.515E+01	2.163E+01	3.318E+01	0.000E+00	-0.758

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A,04L28841-8        ,06/11/2006 23:07,06/01/2006 11:15,   3.056E+00,WG L28841-8 EX
B,04L28841-8        ,LIBD                ,06/02/2006 09:04,043L082004
C,K-40     ,YES,    2.552E+00,   4.722E+01,   3.770E+01,,    0.068
C,RA-226   ,YES,    1.107E+01,   5.320E+01,   7.688E+01,,    0.144
C,BE-7     ,NO ,    5.323E+00,   2.036E+01,   3.400E+01,,    0.157
C,CR-51    ,NO ,   -2.412E+01,   2.224E+01,   3.533E+01,,   -0.683
C,MN-54    ,NO ,   -7.126E-01,   2.173E+00,   3.482E+00,,   -0.205
C,CO-57    ,NO ,    1.436E-01,   1.901E+00,   3.189E+00,,    0.045
C,CO-58    ,NO ,   -2.006E+00,   2.367E+00,   3.694E+00,,   -0.543
C,FE-59    ,NO ,    3.778E+00,   4.906E+00,   8.388E+00,,    0.450
C,CO-60    ,NO ,   -4.608E-01,   2.650E+00,   4.378E+00,,   -0.105
C,ZN-65    ,NO ,    2.439E+00,   5.008E+00,   8.412E+00,,    0.290
C,SE-75    ,NO ,    3.856E-01,   2.911E+00,   4.862E+00,,    0.079
C,SR-85    ,NO ,    1.902E+01,   2.827E+00,   5.524E+00,,    3.443
C,Y-88     ,NO ,   -7.746E-01,   2.469E+00,   3.921E+00,,   -0.198
C,NB-94    ,NO ,   -8.769E-02,   2.123E+00,   3.501E+00,,   -0.025
C,NB-95    ,NO ,    1.600E+00,   2.314E+00,   3.931E+00,,    0.407
C,ZR-95    ,NO ,   -2.387E+00,   4.169E+00,   6.652E+00,,   -0.359
C,MO-99    ,NO ,    2.138E+02,   2.143E+02,   3.699E+02,,    0.578
C,RU-103   ,NO ,    2.709E+00,   2.619E+00,   4.485E+00,,    0.604
C,RU-106   ,NO ,   -2.023E+01,   2.057E+01,   3.123E+01,,   -0.648
C,AG-110m  ,NO ,   -9.446E-01,   2.060E+00,   3.345E+00,,   -0.282
C,SN-113   ,NO ,   -9.380E-01,   2.880E+00,   4.625E+00,,   -0.203
C,SB-124   ,NO ,   -1.253E+00,   5.464E+00,   3.785E+00,,   -0.331
C,SB-125   ,NO ,    2.029E+00,   5.883E+00,   9.918E+00,,    0.205
C,TE-129M  ,NO ,    2.051E+00,   2.965E+01,   4.926E+01,,    0.042
C,I-131    ,NO ,    7.676E-01,   4.968E+00,   8.159E+00,,    0.094
C,BA-133   ,NO ,    7.021E+00,   3.383E+00,   5.172E+00,,    1.357
C,CS-134   ,NO ,    2.960E+00,   5.001E+00,   3.952E+00,,    0.749
C,CS-136   ,NO ,   -1.417E+00,   3.670E+00,   5.873E+00,,   -0.241
C,CS-137   ,NO ,    1.416E+00,   2.302E+00,   3.926E+00,,    0.361
C,CE-139   ,NO ,    2.446E+00,   2.020E+00,   3.428E+00,,    0.714
C,BA-140   ,NO ,   -1.842E+00,   1.267E+01,   2.065E+01,,   -0.089
C,LA-140   ,NO ,    5.144E+00,   4.343E+00,   7.805E+00,,    0.659
C,CE-141   ,NO ,    1.130E+00,   4.735E+00,   6.779E+00,,    0.167
C,CE-144   ,NO ,   -6.754E+00,   1.667E+01,   2.437E+01,,   -0.277
C,EU-152   ,NO ,   -7.168E+00,   7.888E+00,   1.046E+01,,   -0.685
C,EU-154   ,NO ,   -8.420E-01,   3.934E+00,   6.553E+00,,   -0.128
C,AC-228   ,NO ,    7.313E+00,   8.605E+00,   1.500E+01,,    0.488
C,TH-228   ,NO ,    3.393E+00,   4.108E+00,   7.025E+00,,    0.483
C,TH-232   ,NO ,    7.288E+00,   8.576E+00,   1.495E+01,,    0.488
C,U-235    ,NO ,    1.821E+01,   1.760E+01,   2.562E+01,,    0.711
C,U-238    ,NO ,   -3.319E+01,   2.338E+02,   3.820E+02,,   -0.087
C,AM-241   ,NO ,   -2.515E+01,   2.163E+01,   3.318E+01,,   -0.758
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 22:58:47.04
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 11-JUN-2006 16:18:48.24

LIMS No., Customer Name, Client ID: WG L28841-9 EXELON TMI

Sample ID : 07L28841-9
Sample Type : WG
Quantity : 2.99530E+00 L
Start Channel : 40
End Channel : 4090
MDA Constant : 0.00

Energy Tol : 1.00000
Pk Srch Sens: 5.00000
Library Used: LIBD

Smple Date: 30-MAY-2006 16:20:00.
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 06:39:56.43
Live time : 0 06:39:51.73

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.36*	197	733	1.13	133.29	8.07E-01	8.21E-03	26.4	9.65E-01
2	1	139.71*	272	686	1.27	280.11	2.36E+00	1.13E-02	20.5	4.11E+00
3	1	198.21*	115	479	1.21	397.19	2.25E+00	4.78E-03	39.6	3.22E+00
4	1	499.80	36	146	1.23	1000.70	1.25E+00	1.50E-03	60.3	1.33E+00
5	1	595.80	134	192	1.91	1192.76	1.10E+00	5.60E-03	23.1	1.25E+00
6	1	609.27*	112	127	2.19	1219.72	1.09E+00	4.67E-03	26.5	1.59E+00
7	1	1239.97	45	68	1.62	2481.12	6.54E-01	1.86E-03	42.5	6.85E+00
8	1	1461.18*	50	41	2.15	2923.36	5.83E-01	2.07E-03	50.6	1.26E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	50	10.67*	5.827E-01	3.000E+01	3.000E+01	101.25

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28841-9

Acquisition date : 11-JUN-2006 16:18:48

Total number of lines in spectrum	8	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	1	12.50%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.000E+01	3.000E+01	3.038E+01	101.25	
		Total Activity :	3.000E+01	3.000E+01			
		Grand Total Activity :	3.000E+01	3.000E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 07L28841-9

Acquisition date : 11-JUN-2006 16:18:48

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.36	197	733	1.13	133.29	130	8	8.21E-03	52.9	8.07E-01	
1	139.71	272	686	1.27	280.11	275	10	1.13E-02	41.0	2.36E+00	
1	198.21	115	479	1.21	397.19	394	8	4.78E-03	79.2	2.25E+00	
1	499.80	36	146	1.23	1000.70	996	8	1.50E-03	****	1.25E+00	
1	595.80	134	192	1.91	1192.76	1185	13	5.60E-03	46.2	1.10E+00	
1	609.27	112	127	2.19	1219.72	1215	10	4.67E-03	53.1	1.09E+00	
1	1239.97	45	68	1.62	2481.12	2474	14	1.86E-03	85.0	6.54E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	8	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	1	12.50%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.000E+01	3.000E+01	3.038E+01	101.25	
			---	---			
	Total Activity :		3.000E+01	3.000E+01			

Grand Total Activity : 3.000E+01 3.000E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	3.000E+01	3.038E+01	3.042E+01	0.000E+00	0.986

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	2.279E+01		1.876E+01	3.185E+01	0.000E+00	0.715
NA-24	-2.970E-01		7.499E-01	Half-Life too short		
CR-51	-1.577E-01		2.144E+01	3.568E+01	0.000E+00	-0.004
MN-54	8.046E-01		1.901E+00	3.202E+00	0.000E+00	0.251

CO-57	-1.516E+00	1.926E+00	3.094E+00	0.000E+00	-0.490
CO-58	-6.016E-01	2.098E+00	3.428E+00	0.000E+00	-0.175
FE-59	2.757E+00	4.206E+00	7.200E+00	0.000E+00	0.383
CO-60	1.278E+00	1.873E+00	3.195E+00	0.000E+00	0.400
ZN-65	4.479E+00	4.186E+00	7.292E+00	0.000E+00	0.614
SE-75	9.849E-01	2.725E+00	4.492E+00	0.000E+00	0.219
SR-85	2.066E+01	2.672E+00	5.238E+00	0.000E+00	3.945
Y-88	-1.837E+00	2.300E+00	3.591E+00	0.000E+00	-0.512
NB-94	-1.376E+00	1.905E+00	3.014E+00	0.000E+00	-0.456
NB-95	9.487E-01	2.085E+00	3.532E+00	0.000E+00	0.269
ZR-95	-1.094E+00	3.916E+00	6.279E+00	0.000E+00	-0.174
MO-99	1.062E+02	3.054E+02	5.045E+02	0.000E+00	0.211
RU-103	1.028E+00	2.432E+00	4.009E+00	0.000E+00	0.256
RU-106	-3.078E-01	1.767E+01	2.904E+01	0.000E+00	-0.011
AG-110m	-3.278E-01	1.914E+00	3.115E+00	0.000E+00	-0.105
SN-113	5.584E-01	2.604E+00	4.318E+00	0.000E+00	0.129
SB-124	1.330E+00	4.915E+00	3.610E+00	0.000E+00	0.368
SB-125	4.596E-01	5.656E+00	9.293E+00	0.000E+00	0.049
TE-129M	2.598E+00	2.666E+01	4.366E+01	0.000E+00	0.060
I-131	2.752E+00	5.356E+00	8.995E+00	0.000E+00	0.306
BA-133	5.048E+00	2.681E+00	4.672E+00	0.000E+00	1.080
CS-134	5.945E+00	3.305E+00	3.706E+00	0.000E+00	1.604
CS-136	2.143E+00	3.322E+00	5.663E+00	0.000E+00	0.378
CS-137	-5.947E-03	2.062E+00	3.378E+00	0.000E+00	-0.002
CE-139	2.907E-01	1.896E+00	3.173E+00	0.000E+00	0.092
BA-140	2.646E+00	1.274E+01	2.131E+01	0.000E+00	0.124
LA-140	5.320E+00	4.216E+00	7.483E+00	0.000E+00	0.711
CE-141	2.925E+00	4.639E+00	6.532E+00	0.000E+00	0.448
CE-144	-1.106E+01	1.767E+01	2.399E+01	0.000E+00	-0.461
EU-152	-1.565E+01	6.124E+00	9.417E+00	0.000E+00	-1.662
EU-154	-1.406E-01	3.926E+00	6.410E+00	0.000E+00	-0.022
RA-226	2.047E+00	5.022E+01	8.059E+01	0.000E+00	0.025
AC-228	-6.677E-01	8.377E+00	1.281E+01	0.000E+00	-0.052
TH-228	1.144E+00	3.973E+00	6.324E+00	0.000E+00	0.181
TH-232	-6.650E-01	8.343E+00	1.275E+01	0.000E+00	-0.052
U-235	1.164E+01	1.682E+01	2.374E+01	0.000E+00	0.490
U-238	-5.767E+01	2.117E+02	3.405E+02	0.000E+00	-0.169
AM-241	-3.309E+01	1.986E+01	2.814E+01	0.000E+00	-1.176

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A,07L28841-9        ,06/11/2006 22:58,05/30/2006 16:20,   2.995E+00,WG L28841-9 EX
B,07L28841-9        ,LIBD                ,06/07/2006 09:32,073L082504
C,K-40     ,YES,    3.000E+01,   3.038E+01,   3.042E+01,,    0.986
C,BE-7     ,NO ,    2.279E+01,   1.876E+01,   3.185E+01,,    0.715
C,CR-51    ,NO ,   -1.577E-01,   2.144E+01,   3.568E+01,,   -0.004
C,MN-54    ,NO ,    8.046E-01,   1.901E+00,   3.202E+00,,    0.251
C,CO-57    ,NO ,   -1.516E+00,   1.926E+00,   3.094E+00,,   -0.490
C,CO-58    ,NO ,   -6.016E-01,   2.098E+00,   3.428E+00,,   -0.175
C,FE-59    ,NO ,    2.757E+00,   4.206E+00,   7.200E+00,,    0.383
C,CO-60    ,NO ,    1.278E+00,   1.873E+00,   3.195E+00,,    0.400
C,ZN-65    ,NO ,    4.479E+00,   4.186E+00,   7.292E+00,,    0.614
C,SE-75    ,NO ,    9.849E-01,   2.725E+00,   4.492E+00,,    0.219
C,SR-85    ,NO ,    2.066E+01,   2.672E+00,   5.238E+00,,    3.945
C,Y-88     ,NO ,   -1.837E+00,   2.300E+00,   3.591E+00,,   -0.512
C,NB-94    ,NO ,   -1.376E+00,   1.905E+00,   3.014E+00,,   -0.456
C,NB-95    ,NO ,    9.487E-01,   2.085E+00,   3.532E+00,,    0.269
C,ZR-95    ,NO ,   -1.094E+00,   3.916E+00,   6.279E+00,,   -0.174
C,MO-99    ,NO ,    1.062E+02,   3.054E+02,   5.045E+02,,    0.211
C,RU-103   ,NO ,    1.028E+00,   2.432E+00,   4.009E+00,,    0.256
C,RU-106   ,NO ,   -3.078E-01,   1.767E+01,   2.904E+01,,   -0.011
C,AG-110m  ,NO ,   -3.278E-01,   1.914E+00,   3.115E+00,,   -0.105
C,SN-113   ,NO ,    5.584E-01,   2.604E+00,   4.318E+00,,    0.129
C,SB-124   ,NO ,    1.330E+00,   4.915E+00,   3.610E+00,,    0.368
C,SB-125   ,NO ,    4.596E-01,   5.656E+00,   9.293E+00,,    0.049
C,TE-129M  ,NO ,    2.598E+00,   2.666E+01,   4.366E+01,,    0.060
C,I-131    ,NO ,    2.752E+00,   5.356E+00,   8.995E+00,,    0.306
C,BA-133   ,NO ,    5.048E+00,   2.681E+00,   4.672E+00,,    1.080
C,CS-134   ,NO ,    5.945E+00,   3.305E+00,   3.706E+00,,    1.604
C,CS-136   ,NO ,    2.143E+00,   3.322E+00,   5.663E+00,,    0.378
C,CS-137   ,NO ,   -5.947E-03,   2.062E+00,   3.378E+00,,   -0.002
C,CE-139   ,NO ,    2.907E-01,   1.896E+00,   3.173E+00,,    0.092
C,BA-140   ,NO ,    2.646E+00,   1.274E+01,   2.131E+01,,    0.124
C,LA-140   ,NO ,    5.320E+00,   4.216E+00,   7.483E+00,,    0.711
C,CE-141   ,NO ,    2.925E+00,   4.639E+00,   6.532E+00,,    0.448
C,CE-144   ,NO ,   -1.106E+01,   1.767E+01,   2.399E+01,,   -0.461
C,EU-152   ,NO ,   -1.565E+01,   6.124E+00,   9.417E+00,,   -1.662
C,EU-154   ,NO ,   -1.406E-01,   3.926E+00,   6.410E+00,,   -0.022
C,RA-226   ,NO ,    2.047E+00,   5.022E+01,   8.059E+01,,    0.025
C,AC-228   ,NO ,   -6.677E-01,   8.377E+00,   1.281E+01,,   -0.052
C,TH-228   ,NO ,    1.144E+00,   3.973E+00,   6.324E+00,,    0.181
C,TH-232   ,NO ,   -6.650E-01,   8.343E+00,   1.275E+01,,   -0.052
C,U-235    ,NO ,    1.164E+01,   1.682E+01,   2.374E+01,,    0.490
C,U-238    ,NO ,   -5.767E+01,   2.117E+02,   3.405E+02,,   -0.169
C,AM-241   ,NO ,   -3.309E+01,   1.986E+01,   2.814E+01,,   -1.176
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 22:58:57.09
TBE10 12892256 HpGe ********** Aquisition Date/Time: 11-JUN-2006 16:20:07.17

LIMS No., Customer Name, Client ID: WG L28841-10 EXELON TMI

Sample ID : 10L28841-10
Sample Type : WG
Quantity : 3.06770E+00 L
Start Channel : 80 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 1-JUN-2006 17:45:00.0
Geometry : 103L083004
BKGFILE : 10BG060306MT
Real Time : 0 06:38:45.77
Live time : 0 06:38:41.75

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	63.57*	87	645	1.34	126.24	6.29E-01	3.64E-03	56.6	1.82E+00
2	1	66.43*	209	654	1.34	131.98	7.31E-01	8.74E-03	23.8	
3	1	74.38*	8	1013	2.45	147.87	1.01E+00	3.28E-04	837.2	3.05E+00
4	1	92.67*	23	698	1.54	184.47	1.52E+00	9.68E-04	230.1	1.06E+00
5	1	139.91	192	793	1.17	279.00	1.91E+00	8.03E-03	28.4	6.96E-01
6	1	186.08*	29	874	2.43	371.38	1.77E+00	1.22E-03	223.9	9.12E-01
7	1	198.12*	121	686	1.58	395.46	1.72E+00	5.07E-03	46.8	2.68E+00
8	1	238.58*	21	422	1.56	476.43	1.54E+00	8.70E-04	207.5	1.19E+00
9	1	242.05	96	375	1.59	483.37	1.52E+00	4.01E-03	36.4	1.07E+00
10	1	295.77	163	387	1.87	590.88	1.33E+00	6.80E-03	25.7	3.34E+00
11	1	352.27*	83	225	1.25	703.92	1.17E+00	3.45E-03	39.6	2.37E+00
12	1	596.32	70	192	2.23	1192.32	7.85E-01	2.93E-03	42.3	1.85E+00
13	1	609.54*	137	116	1.67	1218.78	7.72E-01	5.71E-03	20.2	1.83E+00
14	1	1120.33*	35	97	2.75	2241.15	4.79E-01	1.47E-03	68.0	3.02E+00
15	1	1461.61*	6	59	2.02	2924.37	3.88E-01	2.37E-04	424.4	2.66E+00
16	1	1766.60	85	79	1.05	3535.06	3.39E-01	3.55E-03	27.5	2.32E+01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	6	10.67*	3.884E-01	5.047E+00	5.047E+00	848.80
RA-226	186.21	29	3.28*	1.770E+00	1.858E+01	1.858E+01	447.82
TH-228	238.63	21	44.60*	1.538E+00	1.117E+00	1.128E+00	415.05
	240.98	------	3.95	1.529E+00	------	Line Not Found	------
U-235	143.76	------	10.50*	1.905E+00	------	Line Not Found	------
	163.35	------	4.70	1.860E+00	------	Line Not Found	------
	185.71	29	54.00	1.770E+00	1.129E+00	1.129E+00	447.82
	205.31	------	4.70	1.684E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L28841-10

Acquisition date : 11-JUN-2006 16:20:07

Total number of lines in spectrum	16	
Number of unidentified lines	13	
Number of lines tentatively identified by NID	3	18.75%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	5.047E+00	5.047E+00	42.84E+00	848.80	
RA-226	1600.00Y	1.00	1.858E+01	1.858E+01	8.321E+01	447.82	
TH-228	1.91Y	1.01	1.117E+00	1.128E+00	4.681E+00	415.05	
U-235	7.04E+08Y	1.00	1.129E+00	1.129E+00	5.054E+00	447.82	K
			---	---			
Total Activity :			2.587E+01	2.589E+01			

Grand Total Activity : 2.587E+01 2.589E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 10L28841-10

Acquisition date : 11-JUN-2006 16:20:07

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	63.57	87	645	1.34	126.24	122	15	3.64E-03	****	6.29E-01	
1	66.43	209	654	1.34	131.98	122	15	8.74E-03	47.7	7.31E-01	
1	74.38	8	1013	2.45	147.87	142	11	3.28E-04	****	1.01E+00	
1	92.67	23	698	1.54	184.47	181	8	9.68E-04	****	1.52E+00	
1	139.91	192	793	1.17	279.00	275	10	8.03E-03	56.8	1.91E+00	
1	198.12	121	686	1.58	395.46	390	11	5.07E-03	93.5	1.72E+00	
1	242.05	96	375	1.59	483.37	480	8	4.01E-03	72.8	1.52E+00	
1	295.77	163	387	1.87	590.88	585	12	6.80E-03	51.3	1.33E+00	
1	352.27	83	225	1.25	703.92	700	8	3.45E-03	79.3	1.17E+00	
1	596.32	70	192	2.23	1192.32	1186	13	2.93E-03	84.6	7.85E-01	
1	609.54	137	116	1.67	1218.78	1214	10	5.71E-03	40.5	7.72E-01	
1	1120.33	35	97	2.75	2241.15	2237	15	1.47E-03	****	4.79E-01	
1	1766.60	85	79	1.05	3535.06	3530	19	3.55E-03	55.0	3.39E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	16	
Number of unidentified lines	13	
Number of lines tentatively identified by NID	3	18.75%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	5.047E+00	5.047E+00	42.84E+00	848.80	
RA-226	1600.00Y	1.00	1.858E+01	1.858E+01	8.321E+01	447.82	
TH-228	1.91Y	1.01	1.117E+00	1.128E+00	4.681E+00	415.05	
			---	---			
	Total Activity :		2.475E+01	2.476E+01			

Grand Total Activity : 2.475E+01 2.476E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	5.047E+00	4.284E+01	4.008E+01	0.000E+00	0.126
RA-226	1.858E+01	8.321E+01	9.981E+01	0.000E+00	0.186
TH-228	1.128E+00	4.681E+00	7.607E+00	0.000E+00	0.148

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-1.542E+01		2.292E+01	3.708E+01	0.000E+00	-0.416
NA-24	-5.128E-02		9.348E-02	Half-Life too short		
CR-51	-6.186E+00		2.749E+01	4.495E+01	0.000E+00	-0.138
MN-54	5.719E-01		2.417E+00	4.036E+00	0.000E+00	0.142
CO-57	-1.140E-01		2.465E+00	4.074E+00	0.000E+00	-0.028
CO-58	-2.460E-01		2.446E+00	4.021E+00	0.000E+00	-0.061
FE-59	-2.446E+00		5.312E+00	8.580E+00	0.000E+00	-0.285
CO-60	-6.475E-01		2.492E+00	4.010E+00	0.000E+00	-0.161
ZN-65	6.513E+00		6.441E+00	9.725E+00	0.000E+00	0.670
SE-75	-9.535E-01		3.426E+00	5.640E+00	0.000E+00	-0.169
SR-85	1.809E+01		3.176E+00	6.054E+00	0.000E+00	2.988
Y-88	1.001E+00		2.892E+00	4.872E+00	0.000E+00	0.206
NB-94	-1.719E+00		2.386E+00	3.748E+00	0.000E+00	-0.459
NB-95	1.416E+00		2.495E+00	4.251E+00	0.000E+00	0.333
ZR-95	-2.629E+00		4.802E+00	7.766E+00	0.000E+00	-0.339
MO-99	-1.250E+02		2.233E+02	3.611E+02	0.000E+00	-0.346
RU-103	-2.950E-01		2.935E+00	4.842E+00	0.000E+00	-0.061
RU-106	7.788E+00		2.375E+01	3.895E+01	0.000E+00	0.200
AG-110m	-1.227E+00		2.383E+00	3.795E+00	0.000E+00	-0.323
SN-113	-8.597E-01		3.516E+00	5.688E+00	0.000E+00	-0.151
SB-124	-2.393E+00		6.459E+00	4.215E+00	0.000E+00	-0.568
SB-125	3.542E+00		7.337E+00	1.212E+01	0.000E+00	0.292
TE-129M	7.711E+00		3.389E+01	5.677E+01	0.000E+00	0.136
I-131	-7.172E-01		6.022E+00	9.815E+00	0.000E+00	-0.073
BA-133	9.396E+00		4.221E+00	6.406E+00	0.000E+00	1.467
CS-134	6.636E+00		5.418E+00	4.549E+00	0.000E+00	1.459
CS-136	-1.521E+00		3.674E+00	5.932E+00	0.000E+00	-0.256
CS-137	1.479E+00		2.635E+00	4.411E+00	0.000E+00	0.335
CE-139	3.652E-01		2.586E+00	4.248E+00	0.000E+00	0.086
BA-140	-3.047E+00		1.417E+01	2.316E+01	0.000E+00	-0.132
LA-140	-5.373E-01		4.336E+00	7.095E+00	0.000E+00	-0.076
CE-141	3.869E+00		5.935E+00	8.444E+00	0.000E+00	0.458
CE-144	4.799E+00		2.214E+01	3.120E+01	0.000E+00	0.154
EU-152	-7.297E+00		9.311E+00	1.286E+01	0.000E+00	-0.568
EU-154	-1.185E+00		5.093E+00	8.384E+00	0.000E+00	-0.141
AC-228	5.566E+00		9.892E+00	1.565E+01	0.000E+00	0.356
TH-232	5.548E+00		9.859E+00	1.560E+01	0.000E+00	0.356
U-235	3.049E+01		2.243E+01	3.255E+01	0.000E+00	0.937
U-238	-4.898E+01		2.646E+02	4.272E+02	0.000E+00	-0.115
AM-241	3.776E-01		2.450E+01	3.400E+01	0.000E+00	0.011

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A,10L28841-10      ,06/11/2006 22:58,06/01/2006 17:45,   3.068E+00,WG L28841-10 E
B,10L28841-10      ,LIBD                   ,06/07/2006 09:32,103L083004
C,K-40     ,YES,   5.047E+00,   4.284E+01,   4.008E+01,,    0.126
C,RA-226   ,YES,   1.858E+01,   8.321E+01,   9.981E+01,,    0.186
C,TH-228   ,YES,   1.128E+00,   4.681E+00,   7.607E+00,,    0.148
C,BE-7     ,NO ,  -1.542E+01,   2.292E+01,   3.708E+01,,   -0.416
C,CR-51    ,NO ,  -6.186E+00,   2.749E+01,   4.495E+01,,   -0.138
C,MN-54    ,NO ,   5.719E-01,   2.417E+00,   4.036E+00,,    0.142
C,CO-57    ,NO ,  -1.140E-01,   2.465E+00,   4.074E+00,,   -0.028
C,CO-58    ,NO ,  -2.460E-01,   2.446E+00,   4.021E+00,,   -0.061
C,FE-59    ,NO ,  -2.446E+00,   5.312E+00,   8.580E+00,,   -0.285
C,CO-60    ,NO ,  -6.475E-01,   2.492E+00,   4.010E+00,,   -0.161
C,ZN-65    ,NO ,   6.513E+00,   6.441E+00,   9.725E+00,,    0.670
C,SE-75    ,NO ,  -9.535E-01,   3.426E+00,   5.640E+00,,   -0.169
C,SR-85    ,NO ,   1.809E+01,   3.176E+00,   6.054E+00,,    2.988
C,Y-88     ,NO ,   1.001E+00,   2.892E+00,   4.872E+00,,    0.206
C,NB-94    ,NO ,  -1.719E+00,   2.386E+00,   3.748E+00,,   -0.459
C,NB-95    ,NO ,   1.416E+00,   2.495E+00,   4.251E+00,,    0.333
C,ZR-95    ,NO ,  -2.629E+00,   4.802E+00,   7.766E+00,,   -0.339
C,MO-99    ,NO ,  -1.250E+02,   2.233E+02,   3.611E+02,,   -0.346
C,RU-103   ,NO ,  -2.950E-01,   2.935E+00,   4.842E+00,,   -0.061
C,RU-106   ,NO ,   7.788E+00,   2.375E+01,   3.895E+01,,    0.200
C,AG-110m  ,NO ,  -1.227E+00,   2.383E+00,   3.795E+00,,   -0.323
C,SN-113   ,NO ,  -8.597E-01,   3.516E+00,   5.688E+00,,   -0.151
C,SB-124   ,NO ,  -2.393E+00,   6.459E+00,   4.215E+00,,   -0.568
C,SB-125   ,NO ,   3.542E+00,   7.337E+00,   1.212E+01,,    0.292
C,TE-129M  ,NO ,   7.711E+00,   3.389E+01,   5.677E+01,,    0.136
C,I-131    ,NO ,  -7.172E-01,   6.022E+00,   9.815E+00,,   -0.073
C,BA-133   ,NO ,   9.396E+00,   4.221E+00,   6.406E+00,,    1.467
C,CS-134   ,NO ,   6.636E+00,   5.418E+00,   4.549E+00,,    1.459
C,CS-136   ,NO ,  -1.521E+00,   3.674E+00,   5.932E+00,,   -0.256
C,CS-137   ,NO ,   1.479E+00,   2.635E+00,   4.411E+00,,    0.335
C,CE-139   ,NO ,   3.652E-01,   2.586E+00,   4.248E+00,,    0.086
C,BA-140   ,NO ,  -3.047E+00,   1.417E+01,   2.316E+01,,   -0.132
C,LA-140   ,NO ,  -5.373E-01,   4.336E+00,   7.095E+00,,   -0.076
C,CE-141   ,NO ,   3.869E+00,   5.935E+00,   8.444E+00,,    0.458
C,CE-144   ,NO ,   4.799E+00,   2.214E+01,   3.120E+01,,    0.154
C,EU-152   ,NO ,  -7.297E+00,   9.311E+00,   1.286E+01,,   -0.568
C,EU-154   ,NO ,  -1.185E+00,   5.093E+00,   8.384E+00,,   -0.141
C,AC-228   ,NO ,   5.566E+00,   9.892E+00,   1.565E+01,,    0.356
C,TH-232   ,NO ,   5.548E+00,   9.859E+00,   1.560E+01,,    0.356
C,U-235    ,NO ,   3.049E+01,   2.243E+01,   3.255E+01,,    0.937
C,U-238    ,NO ,  -4.898E+01,   2.646E+02,   4.272E+02,,   -0.115
C,AM-241   ,NO ,   3.776E-01,   2.450E+01,   3.400E+01,,    0.011
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 22:59:50.91
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 11-JUN-2006 16:20:18.97

LIMS No., Customer Name, Client ID: WG L28841-11 EXELON TMI

Sample ID : 11L28841-11
Sample Type : WG
Quantity : 3.12210E+00 L
Start Channel : 40 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 1-JUN-2006 16:00:00.0
Geometry : 113L082304
BKGFILE : 11BG060306MT
Real Time : 0 06:39:28.90
Live time : 0 06:39:20.23

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	66.65	206	1506	1.41	132.30	6.98E-01	8.58E-03	34.8	
2	0	139.79*	159	817	0.92	279.02	1.90E+00	6.65E-03	37.8	
3	0	186.04*	40	601	1.16	371.77	1.80E+00	1.66E-03	126.7	
4	0	198.31	195	597	1.38	396.37	1.75E+00	8.15E-03	23.7	
5	0	239.56*	185	753	1.39	479.07	1.57E+00	7.73E-03	36.7	
6	0	295.48*	91	395	1.27	591.18	1.37E+00	3.80E-03	47.3	
7	0	351.81*	137	352	1.18	704.07	1.20E+00	5.73E-03	31.3	
8	0	608.99*	222	137	1.80	1219.24	7.90E-01	9.28E-03	14.6	
9	0	911.15*	7	47	2.07	1823.90	5.75E-01	3.01E-04	281.6	
10	0	969.38*	25	59	2.97	1940.34	5.47E-01	1.04E-03	84.3	
11	0	1120.18*	28	72	1.67	2241.79	4.86E-01	1.15E-03	71.1	
12	0	1460.38*	25	63	1.99	2921.27	3.92E-01	1.05E-03	97.0	
13	0	1761.78	81	27	1.90	3522.54	3.39E-01	3.38E-03	18.7	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	25	10.67*	3.920E-01	2.180E+01	2.180E+01	194.05
RA-226	186.21	40	3.28*	1.798E+00	2.444E+01	2.444E+01	253.42
AC-228	835.50	------	1.75	6.158E-01	------	Line Not Found	------
	911.07	7	27.70*	5.745E-01	1.638E+00	1.644E+00	563.19
TH-228	238.63	185	44.60*	1.573E+00	9.536E+00	9.632E+00	73.47
	240.98	------	3.95	1.567E+00	------	Line Not Found	------
TH-232	583.14	------	30.25	8.172E-01	------	Line Not Found	------
	911.07	7	27.70*	5.745E-01	1.638E+00	1.638E+00	563.19
	969.11	25	16.60	5.465E-01	9.914E+00	9.914E+00	168.70
U-235	143.76	------	10.50*	1.906E+00	------	Line Not Found	------
	163.35	------	4.70	1.876E+00	------	Line Not Found	------
	185.71	40	54.00	1.798E+00	1.484E+00	1.484E+00	253.42
	205.31	------	4.70	1.718E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 11L28841-11

Acquisition date : 11-JUN-2006 16:20:18

Total number of lines in spectrum	13	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	5	38.46%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.180E+01	2.180E+01	4.231E+01	194.05	
RA-226	1600.00Y	1.00	2.444E+01	2.444E+01	6.193E+01	253.42	
AC-228	5.75Y	1.00	1.638E+00	1.644E+00	9.259E+00	563.19	
TH-228	1.91Y	1.01	9.536E+00	9.632E+00	7.077E+00	73.47	
TH-232	1.41E+10Y	1.00	1.638E+00	1.638E+00	9.228E+00	563.19	
U-235	7.04E+08Y	1.00	1.484E+00	1.484E+00	3.762E+00	253.42	K
			---	---			
	Total Activity :		6.054E+01	6.064E+01			

Grand Total Activity : 6.054E+01 6.064E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 11L28841-11

Acquisition date : 11-JUN-2006 16:20:18

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	66.65	206	1506	1.41	132.30	128	9	8.58E-03	69.6	6.98E-01	
0	139.79	159	817	0.92	279.02	274	11	6.65E-03	75.6	1.90E+00	
0	198.31	195	597	1.38	396.37	392	9	8.15E-03	47.4	1.75E+00	
0	295.48	91	395	1.27	591.18	586	11	3.80E-03	94.6	1.37E+00	
0	351.81	137	352	1.18	704.07	699	11	5.73E-03	62.6	1.20E+00	
0	608.99	222	137	1.80	1219.24	1213	14	9.28E-03	29.2	7.90E-01	
0	1120.18	28	72	1.67	2241.79	2236	12	1.15E-03	****	4.86E-01	
0	1761.78	81	27	1.90	3522.54	3515	18	3.38E-03	37.4	3.39E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	13	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	5	38.46%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.180E+01	2.180E+01	4.231E+01	194.05	
RA-226	1600.00Y	1.00	2.444E+01	2.444E+01	6.193E+01	253.42	
TH-228	1.91Y	1.01	9.536E+00	9.632E+00	7.077E+00	73.47	
TH-232	1.41E+10Y	1.00	3.570E+00	3.570E+00	8.080E+00	226.34	
			---	---			
	Total Activity :		5.935E+01	5.944E+01			

Grand Total Activity : 5.935E+01 5.944E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

Interfering Nuclide	Interfering Line	Interfered Nuclide	Interfered Line
TH-232	911.07	AC-228	911.07

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	2.180E+01	4.231E+01	3.911E+01	0.000E+00	0.557
RA-226	2.444E+01	6.193E+01	9.536E+01	0.000E+00	0.256
TH-228	9.632E+00	7.077E+00	7.003E+00	0.000E+00	1.375
TH-232	3.570E+00	8.080E+00	1.361E+01	0.000E+00	0.262

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.564E+01		2.248E+01	3.764E+01	0.000E+00	0.415
NA-24	-1.647E-01		9.090E-02	Half-Life too short		
CR-51	-1.699E+01		2.543E+01	4.127E+01	0.000E+00	-0.412
MN-54	1.169E+00		2.332E+00	3.917E+00	0.000E+00	0.298
CO-57	-2.721E+00		2.402E+00	3.872E+00	0.000E+00	-0.703
CO-58	-1.912E+00		2.408E+00	3.778E+00	0.000E+00	-0.506
FE-59	3.777E+00		5.006E+00	8.648E+00	0.000E+00	0.437
CO-60	-9.533E-01		2.432E+00	3.874E+00	0.000E+00	-0.246
ZN-65	1.175E+01		5.988E+00	9.697E+00	0.000E+00	1.212
SE-75	1.281E+00		3.365E+00	5.652E+00	0.000E+00	0.227
SR-85	1.775E+01		3.058E+00	5.794E+00	0.000E+00	3.063
Y-88	3.874E-01		2.812E+00	4.684E+00	0.000E+00	0.083
NB-94	-1.345E+00		2.341E+00	3.765E+00	0.000E+00	-0.357
NB-95	3.332E-01		2.442E+00	4.041E+00	0.000E+00	0.082
ZR-95	4.186E+00		4.418E+00	7.599E+00	0.000E+00	0.551
MO-99	1.340E+02		2.226E+02	3.770E+02	0.000E+00	0.355
RU-103	3.327E+00		2.882E+00	4.896E+00	0.000E+00	0.680
RU-106	-8.468E+00		2.276E+01	3.613E+01	0.000E+00	-0.234
AG-110m	-9.943E-01		2.368E+00	3.846E+00	0.000E+00	-0.259
SN-113	-1.431E+00		3.174E+00	5.136E+00	0.000E+00	-0.279
SB-124	-7.317E+00		3.353E+00	4.109E+00	0.000E+00	-1.781
SB-125	1.405E+00		6.824E+00	1.126E+01	0.000E+00	0.125
TE-129M	7.197E+00		3.346E+01	5.510E+01	0.000E+00	0.131
I-131	3.926E+00		5.710E+00	9.609E+00	0.000E+00	0.409
BA-133	6.120E+00		4.140E+00	6.134E+00	0.000E+00	0.998
CS-134	1.088E+00		3.226E+00	4.602E+00	0.000E+00	0.236
CS-136	-5.361E-01		3.703E+00	6.021E+00	0.000E+00	-0.089
CS-137	1.554E+00		2.549E+00	4.327E+00	0.000E+00	0.359
CE-139	-2.504E-01		2.510E+00	4.100E+00	0.000E+00	-0.061
BA-140	-4.373E+00		1.381E+01	2.212E+01	0.000E+00	-0.198
LA-140	1.066E+00		4.711E+00	7.947E+00	0.000E+00	0.134
CE-141	2.199E-01		5.796E+00	8.082E+00	0.000E+00	0.027
CE-144	-2.928E+00		2.198E+01	3.057E+01	0.000E+00	-0.096
EU-152	-8.865E+00		9.084E+00	1.213E+01	0.000E+00	-0.731
EU-154	-4.019E+00		4.947E+00	8.026E+00	0.000E+00	-0.501
AC-228	1.644E+00		9.259E+00	1.477E+01	0.000E+00	0.111
U-235	2.703E+01		2.168E+01	3.130E+01	0.000E+00	0.864
U-238	2.337E+02		2.517E+02	4.397E+02	0.000E+00	0.531
AM-241	-5.326E+01		3.699E+01	4.909E+01	0.000E+00	-1.085

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A,11L28841-11      ,06/11/2006 22:59,06/01/2006 16:00,   3.122E+00,WG L28841-11 E
B,11L28841-11      ,LIBD                  ,06/07/2006 09:40,113L082304
C,K-40     ,YES,   2.180E+01,   4.231E+01,   3.911E+01,,    0.557
C,RA-226   ,YES,   2.444E+01,   6.193E+01,   9.536E+01,,    0.256
C,TH-228   ,YES,   9.632E+00,   7.077E+00,   7.003E+00,,    1.375
C,TH-232   ,YES,   3.570E+00,   8.080E+00,   1.361E+01,,    0.262
C,BE-7     ,NO ,   1.564E+01,   2.248E+01,   3.764E+01,,    0.415
C,CR-51    ,NO ,  -1.699E+01,   2.543E+01,   4.127E+01,,   -0.412
C,MN-54    ,NO ,   1.169E+00,   2.332E+00,   3.917E+00,,    0.298
C,CO-57    ,NO ,  -2.721E+00,   2.402E+00,   3.872E+00,,   -0.703
C,CO-58    ,NO ,  -1.912E+00,   2.408E+00,   3.778E+00,,   -0.506
C,FE-59    ,NO ,   3.777E+00,   5.006E+00,   8.648E+00,,    0.437
C,CO-60    ,NO ,  -9.533E-01,   2.432E+00,   3.874E+00,,   -0.246
C,ZN-65    ,NO ,   1.175E+01,   5.988E+00,   9.697E+00,,    1.212
C,SE-75    ,NO ,   1.281E+00,   3.365E+00,   5.652E+00,,    0.227
C,SR-85    ,NO ,   1.775E+01,   3.058E+00,   5.794E+00,,    3.063
C,Y-88     ,NO ,   3.874E-01,   2.812E+00,   4.684E+00,,    0.083
C,NB-94    ,NO ,  -1.345E+00,   2.341E+00,   3.765E+00,,   -0.357
C,NB-95    ,NO ,   3.332E-01,   2.442E+00,   4.041E+00,,    0.082
C,ZR-95    ,NO ,   4.186E+00,   4.418E+00,   7.599E+00,,    0.551
C,MO-99    ,NO ,   1.340E+02,   2.226E+02,   3.770E+02,,    0.355
C,RU-103   ,NO ,   3.327E+00,   2.882E+00,   4.896E+00,,    0.680
C,RU-106   ,NO ,  -8.468E+00,   2.276E+01,   3.613E+01,,   -0.234
C,AG-110m  ,NO ,  -9.943E-01,   2.368E+00,   3.846E+00,,   -0.259
C,SN-113   ,NO ,  -1.431E+00,   3.174E+00,   5.136E+00,,   -0.279
C,SB-124   ,NO ,  -7.317E+00,   3.353E+00,   4.109E+00,,   -1.781
C,SB-125   ,NO ,   1.405E+00,   6.824E+00,   1.126E+01,,    0.125
C,TE-129M  ,NO ,   7.197E+00,   3.346E+01,   5.510E+01,,    0.131
C,I-131    ,NO ,   3.926E+00,   5.710E+00,   9.609E+00,,    0.409
C,BA-133   ,NO ,   6.120E+00,   4.140E+00,   6.134E+00,,    0.998
C,CS-134   ,NO ,   1.088E+00,   3.226E+00,   4.602E+00,,    0.236
C,CS-136   ,NO ,  -5.361E-01,   3.703E+00,   6.021E+00,,   -0.089
C,CS-137   ,NO ,   1.554E+00,   2.549E+00,   4.327E+00,,    0.359
C,CE-139   ,NO ,  -2.504E-01,   2.510E+00,   4.100E+00,,   -0.061
C,BA-140   ,NO ,  -4.373E+00,   1.381E+01,   2.212E+01,,   -0.198
C,LA-140   ,NO ,   1.066E+00,   4.711E+00,   7.947E+00,,    0.134
C,CE-141   ,NO ,   2.199E-01,   5.796E+00,   8.082E+00,,    0.027
C,CE-144   ,NO ,  -2.928E+00,   2.198E+01,   3.057E+01,,   -0.096
C,EU-152   ,NO ,  -8.865E+00,   9.084E+00,   1.213E+01,,   -0.731
C,EU-154   ,NO ,  -4.019E+00,   4.947E+00,   8.026E+00,,   -0.501
C,AC-228   ,NO ,   1.644E+00,   9.259E+00,   1.477E+01,,    0.111
C,U-235    ,NO ,   2.703E+01,   2.168E+01,   3.130E+01,,    0.864
C,U-238    ,NO ,   2.337E+02,   2.517E+02,   4.397E+02,,    0.531
C,AM-241   ,NO ,  -5.326E+01,   3.699E+01,   4.909E+01,,   -1.085
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-JUN-2006 23:00:45.24
TBE14 P-10933A HpGe ********** Aquisition Date/Time: 11-JUN-2006 16:20:35.02

LIMS No., Customer Name, Client ID: WG L28841-12 EXELON TMI

Sample ID : 14L28841-12
Sample Type : WG
Quantity : 3.09560E+00 L
Start Channel : 90 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 31-MAY-2006 17:05:00.
Geometry : 143L082304
BKGFILE : 14BG060306MT
Real Time : 0 06:40:03.95
Live time : 0 06:40:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.37	209	848	1.54	133.73	5.13E-01	8.71E-03	26.1	3.63E-01
2	1	92.89*	104	909	2.17	186.91	1.28E+00	4.34E-03	61.5	1.12E+00
3	1	140.00	277	865	2.31	281.37	1.90E+00	1.16E-02	21.2	2.39E+00
4	1	198.48*	151	706	2.14	398.57	1.83E+00	6.28E-03	37.3	2.09E+00
5	1	295.74	171	555	2.31	593.36	1.46E+00	7.11E-03	31.3	1.20E+00
6	1	352.38*	194	329	2.24	706.74	1.28E+00	8.09E-03	23.0	1.45E+00
7	1	500.88	154	265	1.16	1003.73	9.70E-01	6.40E-03	22.1	2.91E+01
8	1	583.14*	15	167	2.23	1168.08	8.62E-01	6.42E-04	199.9	9.84E-01
9	1	596.06	89	143	1.75	1193.89	8.48E-01	3.72E-03	26.2	1.31E+00
10	1	609.20*	192	174	2.10	1220.15	8.34E-01	8.01E-03	18.1	1.09E+00
11	1	847.51*	131	76	1.23	1695.61	6.50E-01	5.44E-03	15.3	6.95E+01
12	1	912.63	213	136	1.63	1825.36	6.16E-01	8.86E-03	12.7	9.42E+01
13	1	1118.68	72	66	3.46	2235.52	5.30E-01	3.02E-03	25.5	2.67E+00
14	1	1461.36*	21	69	2.48	2916.16	4.36E-01	8.85E-04	127.4	2.00E+00
15	1	1764.78	107	104	5.33	3517.26	3.79E-01	4.44E-03	26.0	4.77E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	21	10.67*	4.361E-01	1.661E+01	1.661E+01	254.78

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 14L28841-12
Acquisition date : 11-JUN-2006 16:20:35

Total number of lines in spectrum	15	
Number of unidentified lines	13	
Number of lines tentatively identified by NID	2	13.33%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.661E+01	1.661E+01	4.231E+01	254.78	
		Total Activity :	1.661E+01	1.661E+01			
		Grand Total Activity :	1.661E+01	1.661E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 14L28841-12 Acquisition date : 11-JUN-2006 16:20:35

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.37	209	848	1.54	133.73	130	9	8.71E-03	52.3	5.13E-01	
1	92.89	104	909	2.17	186.91	182	11	4.34E-03	****	1.28E+00	
1	140.00	277	865	2.31	281.37	276	11	1.16E-02	42.4	1.90E+00	
1	198.48	151	706	2.14	398.57	394	11	6.28E-03	74.5	1.83E+00	
1	295.74	171	555	2.31	593.36	587	15	7.11E-03	62.7	1.46E+00	
1	352.38	194	329	2.24	706.74	700	12	8.09E-03	46.0	1.28E+00	
1	500.88	154	265	1.16	1003.73	997	13	6.40E-03	44.2	9.70E-01	
1	583.14	15	167	2.23	1168.08	1163	11	6.42E-04	****	8.62E-01	T
1	596.06	89	143	1.75	1193.89	1190	9	3.72E-03	52.5	8.48E-01	
1	609.20	192	174	2.10	1220.15	1215	12	8.01E-03	36.2	8.34E-01	
1	847.51	131	76	1.23	1695.61	1691	9	5.44E-03	30.5	6.50E-01	
1	912.63	213	136	1.63	1825.36	1818	15	8.86E-03	25.3	6.16E-01	
1	1118.68	72	66	3.46	2235.52	2230	12	3.02E-03	51.0	5.30E-01	
1	1764.78	107	104	5.33	3517.26	3508	24	4.44E-03	52.0	3.79E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	15	
Number of unidentified lines	13	
Number of lines tentatively identified by NID	2	13.33%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.661E+01	1.661E+01	4.231E+01	254.78	
			---	---			
	Total Activity :		1.661E+01	1.661E+01			
	Grand Total Activity :		1.661E+01	1.661E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	1.661E+01	4.231E+01	3.937E+01	0.000E+00	0.422

---- Non-Identified Nuclides ----

Key-Line

Nuclide	Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	8.780E+00		2.374E+01	3.959E+01	0.000E+00	0.222
NA-24	2.393E-01		2.903E-01	Half-Life too short		
CR-51	-1.028E+01		2.675E+01	4.340E+01	0.000E+00	-0.237
MN-54	4.004E-01		2.636E+00	4.168E+00	0.000E+00	0.096
CO-57	-1.171E+00		2.506E+00	4.123E+00	0.000E+00	-0.284
CO-58	-1.024E+00		2.721E+00	4.368E+00	0.000E+00	-0.234
FE-59	2.873E+00		5.524E+00	9.282E+00	0.000E+00	0.310
CO-60	-1.241E+00		2.643E+00	4.230E+00	0.000E+00	-0.293
ZN-65	6.103E+00		5.681E+00	9.773E+00	0.000E+00	0.625
SE-75	-1.591E-01		3.409E+00	5.634E+00	0.000E+00	-0.028
SR-85	2.339E+01		3.195E+00	6.205E+00	0.000E+00	3.770
Y-88	-6.294E-01		2.903E+00	4.676E+00	0.000E+00	-0.135
NB-94	-2.562E-01		2.383E+00	3.912E+00	0.000E+00	-0.065
NB-95	2.229E+00		2.651E+00	4.507E+00	0.000E+00	0.495
ZR-95	-1.120E+00		4.712E+00	7.650E+00	0.000E+00	-0.146
MO-99	-2.352E+01		2.984E+02	4.888E+02	0.000E+00	-0.048
RU-103	-1.269E+00		3.663E+00	4.983E+00	0.000E+00	-0.255
RU-106	-1.813E+01		2.467E+01	3.826E+01	0.000E+00	-0.474
AG-110m	1.538E+00		2.399E+00	4.075E+00	0.000E+00	0.377
SN-113	-1.692E+00		3.318E+00	5.293E+00	0.000E+00	-0.320
SB-124	-1.131E+00		7.036E+00	4.713E+00	0.000E+00	-0.240
SB-125	3.438E-01		7.014E+00	1.164E+01	0.000E+00	0.030
TE-129M	4.531E+00		3.524E+01	5.842E+01	0.000E+00	0.078
I-131	1.914E+00		6.383E+00	1.049E+01	0.000E+00	0.183
BA-133	9.367E+00		4.190E+00	6.284E+00	0.000E+00	1.491
CS-134	7.402E+00		5.365E+00	5.077E+00	0.000E+00	1.458
CS-136	-8.214E-01		4.288E+00	6.938E+00	0.000E+00	-0.118
CS-137	7.998E-01		2.622E+00	4.393E+00	0.000E+00	0.182
CE-139	3.780E-02		2.464E+00	4.043E+00	0.000E+00	0.009
BA-140	9.414E+00		1.632E+01	2.725E+01	0.000E+00	0.345
LA-140	2.067E+00		5.176E+00	8.783E+00	0.000E+00	0.235
CE-141	1.569E-02		5.952E+00	8.334E+00	0.000E+00	0.002
CE-144	7.189E+00		2.233E+01	3.169E+01	0.000E+00	0.227
EU-152	-2.302E+00		9.062E+00	1.235E+01	0.000E+00	-0.186
EU-154	-1.114E+00		5.139E+00	8.491E+00	0.000E+00	-0.131
RA-226	-1.927E+01		6.509E+01	9.982E+01	0.000E+00	-0.193
AC-228	2.865E+00		1.011E+01	1.630E+01	0.000E+00	0.176
TH-228	2.674E+00		4.859E+00	7.744E+00	0.000E+00	0.345
TH-232	2.855E+00		1.007E+01	1.624E+01	0.000E+00	0.176
U-235	2.937E+01		2.173E+01	3.163E+01	0.000E+00	0.929
U-238	-9.274E+01		2.653E+02	4.290E+02	0.000E+00	-0.216
AM-241	-4.401E+01		3.697E+01	5.201E+01	0.000E+00	-0.846

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A,14L28841-12      ,06/11/2006 23:00,05/31/2006 17:05,   3.096E+00,WG L28841-12 E
B,14L28841-12      ,LIBD                  ,06/02/2006 08:23,143L082304
C,K-40     ,YES,   1.661E+01,   4.231E+01,   3.937E+01,,    0.422
C,BE-7     ,NO ,   8.780E+00,   2.374E+01,   3.959E+01,,    0.222
C,CR-51    ,NO ,  -1.028E+01,   2.675E+01,   4.340E+01,,   -0.237
C,MN-54    ,NO ,   4.004E-01,   2.636E+00,   4.168E+00,,    0.096
C,CO-57    ,NO ,  -1.171E+00,   2.506E+00,   4.123E+00,,   -0.284
C,CO-58    ,NO ,  -1.024E+00,   2.721E+00,   4.368E+00,,   -0.234
C,FE-59    ,NO ,   2.873E+00,   5.524E+00,   9.282E+00,,    0.310
C,CO-60    ,NO ,  -1.241E+00,   2.643E+00,   4.230E+00,,   -0.293
C,ZN-65    ,NO ,   6.103E+00,   5.681E+00,   9.773E+00,,    0.625
C,SE-75    ,NO ,  -1.591E-01,   3.409E+00,   5.634E+00,,   -0.028
C,SR-85    ,NO ,   2.339E+01,   3.195E+00,   6.205E+00,,    3.770
C,Y-88     ,NO ,  -6.294E-01,   2.903E+00,   4.676E+00,,   -0.135
C,NB-94    ,NO ,  -2.562E-01,   2.383E+00,   3.912E+00,,   -0.065
C,NB-95    ,NO ,   2.229E+00,   2.651E+00,   4.507E+00,,    0.495
C,ZR-95    ,NO ,  -1.120E+00,   4.712E+00,   7.650E+00,,   -0.146
C,MO-99    ,NO ,  -2.352E+01,   2.984E+02,   4.888E+02,,   -0.048
C,RU-103   ,NO ,  -1.269E+00,   3.663E+00,   4.983E+00,,   -0.255
C,RU-106   ,NO ,  -1.813E+01,   2.467E+01,   3.826E+01,,   -0.474
C,AG-110m  ,NO ,   1.538E+00,   2.399E+00,   4.075E+00,,    0.377
C,SN-113   ,NO ,  -1.692E+00,   3.318E+00,   5.293E+00,,   -0.320
C,SB-124   ,NO ,  -1.131E+00,   7.036E+00,   4.713E+00,,   -0.240
C,SB-125   ,NO ,   3.438E-01,   7.014E+00,   1.164E+01,,    0.030
C,TE-129M  ,NO ,   4.531E+00,   3.524E+01,   5.842E+01,,    0.078
C,I-131    ,NO ,   1.914E+00,   6.383E+00,   1.049E+01,,    0.183
C,BA-133   ,NO ,   9.367E+00,   4.190E+00,   6.284E+00,,    1.491
C,CS-134   ,NO ,   7.402E+00,   5.365E+00,   5.077E+00,,    1.458
C,CS-136   ,NO ,  -8.214E-01,   4.288E+00,   6.938E+00,,   -0.118
C,CS-137   ,NO ,   7.998E-01,   2.622E+00,   4.393E+00,,    0.182
C,CE-139   ,NO ,   3.780E-02,   2.464E+00,   4.043E+00,,    0.009
C,BA-140   ,NO ,   9.414E+00,   1.632E+01,   2.725E+01,,    0.345
C,LA-140   ,NO ,   2.067E+00,   5.176E+00,   8.783E+00,,    0.235
C,CE-141   ,NO ,   1.569E-02,   5.952E+00,   8.334E+00,,    0.002
C,CE-144   ,NO ,   7.189E+00,   2.233E+01,   3.169E+01,,    0.227
C,EU-152   ,NO ,  -2.302E+00,   9.062E+00,   1.235E+01,,   -0.186
C,EU-154   ,NO ,  -1.114E+00,   5.139E+00,   8.491E+00,,   -0.131
C,RA-226   ,NO ,  -1.927E+01,   6.509E+01,   9.982E+01,,   -0.193
C,AC-228   ,NO ,   2.865E+00,   1.011E+01,   1.630E+01,,    0.176
C,TH-228   ,NO ,   2.674E+00,   4.859E+00,   7.744E+00,,    0.345
C,TH-232   ,NO ,   2.855E+00,   1.007E+01,   1.624E+01,,    0.176
C,U-235    ,NO ,   2.937E+01,   2.173E+01,   3.163E+01,,    0.929
C,U-238    ,NO ,  -9.274E+01,   2.653E+02,   4.290E+02,,   -0.216
C,AM-241   ,NO ,  -4.401E+01,   3.697E+01,   5.201E+01,,   -0.846
```

TELEDYNE
BROWN ENGINEERING
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931
865-690-6819 (Phone)

Work Order #: L28840

Exelon

June 12, 2006

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville CT 06062

Case Narrative - L28840
EX001-3ESPTMI-06

06/12/2006 16:40

Sample Receipt

The following samples were received on June 1, 2006 in good condition, unless otherwise noted.

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-MW-4-052606-JAS-001	L28840-1	
WG-TMI-NW-B-053006-JC-006	L28840-2	
WG-TMI-NW-C-053006-JC-007	L28840-3	

Analytical Method Cross Reference Table

Radiological Parameter	TBE Knoxville Method	Reference Method
Gamma Spectrometry	TBE-2007	EPA 901.1
H-3	TBE-2010	EPA 906.0
TOTAL SR	TBE-2018	EPA 905.0

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L28840
EX001-3ESPTMI-06

06/12/2006 16:40

H-3

Quality Control

Quality control samples were analyzed as WG4099.

Method Blank
All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample
All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-QC-MW-QC-103I-060106-JH-021	L28834-11	WG4099-3

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4133.

Method Blank
All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample
All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-DN-DSP-121-052606-JH-014	L28821-1	WG4133-4

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L28840
EX001-3ESPTMI-06

06/12/2006 16:40

Certification

This is to certify that Teledyne Brown Engineering - Environmental Services, located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

Keith Jeter
Operations Manager

Sample Receipt Summary

06/07/06 09:53

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

SR #: SR08722

Client: Exelon

Project #: EX001-3ESPTMI-06

LIMS #: L28840

Initiated By: PMARSHALL
Init Date: 06/06/06 Receive Date: 06/06/06

Notification of Variance

Contacted By:

Person Notified:
Notify Date:
Notify Method:
Notify Comment:

Client Response

Person Responding:
Response Date:
Response Method:
Response Comment

	Criteria	Yes	No	NA	Comment
1	Shipping container custody seals present and intact.			NA	
2	Sample container custody seals present and intact.			NA	
3	Sample containers received in good condition			Y	
4	Chain of custody received with samples			Y	
5	All samples listed on chain of custody received			Y	
6	Sample container labels present and legible.			Y	
7	Information on container labels correspond with chain of custody			Y	
8	Sample(s) properly preserved and in appropriate container(s)			NA	pH < 2
9	Other (Describe)			NA	

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

REALM ENCORE

5/30/06

L 28840

PAGE 1 OF 1

ID # № 03015

SSOW Ref. Code:

Required Client Information:

Company: CRA
Address: 45 Farmington Valley Dr. Plainville, CT. 06062
Phone: 1-860-747-1800
Fax: 1-860-747-1900
E-mail: KshAW@CRAworld.com

Report To: Kathy Shaw
Copy To: Jeff Lambert
Invoice To:
P.O.:
Project Name: TMI-exelon
Project Number: 45136-29

Laboratory: Teledyne / Brown
Laboratory Location:
Laboratory Contact:
Requested Due Date: TAT:
QA/QC Requirements:

Valid Matrix Codes: WG Groundwater, WB Borehole Water, WS Surface Water, SO Soil, SE Sediment, See Back for Additional Codes

Analysis and Method

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Tritium	Gamma Emitters	Strontium 89/90	Remarks/Lab ID
1. WG-TMI-MW-4-052606-JAS-001	WG	5/26/06	1120	2	1			1			X	X	X	added 30ml HNO3
2. WG-TMI-NW-B-053006-JC-006	WG	5/30/06	1720	2	1			1			X	X	X	
3. WG-TMI-NW-C-053006-JC-007	WG	↓	1725	2	1			1			X	X	X	
4.														
5.														
6.														
7.														
8.														
9.														
10.														
11.														
12.														
13.														
14.														
15.														

TOTAL NUMBER OF CONTAINERS 6

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FED EX	1	J. M. Close / CRA	5/31/06	1315	Sweigart / [illegible]	5/31/06	1315
		Sweigart / [illegible]	5/31/06	1320	Pat Marshall	6/1/06	
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: JAson Close
Sampler Signature: J. M. Close
Date: 5/31/06

REV. 016 04)

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

TELEDYNE BROWN ENGINEERING
2508 Quality Lane
Knoxville, TN 37931-3133

ACKNOWLEDGEMENT
This is not an invoice

June 06, 2006

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville, CT 06062

The following sample(s) were received at Teledyne Brown Engineering Knoxville laboratory on June 01, 2006. The sample(s) have been scheduled for the analyses listed below and the report is scheduled for completion by June 08, 2006. Please review the following login information and pricing. Contact me if anything is incorrect or you have questions about the status of your sample(s).

Thank you for choosing Teledyne Brown Engineering for your analytical needs.

Sincerely,
Rebecca Charles
Project Manager
(865)934-0379

Project ID: EX001-3ESPTMI-06
P.O. #: 00411203
Release #:
Contract#: 00411203
Kathy Shaw, FAX#:860-747-1900, larry.walton@exeloncorp.com

Client ID/ Station	Laboratory ID Analysis	Vol/Units Price	Start Collect Date/Time	End Collect Date/Time
WG-TMI-MW-4-052606-JAS-001	L28840-1		05/26/06:1120	
WG	GELI	108.00		
WG	H-3	108.00		
WG	SR-90 (FAST)	140.00		
WG-TMI-NW-B-053006-JC-006	L28840-2		05/30/06:1720	
WG	GELI	108.00		
WG	H-3	108.00		
WG	SR-90 (FAST)	140.00		
WG-TMI-NW-C-053006-JC-007	L28840-3		05/30/06:1725	
WG	GELI	108.00		
WG	H-3	108.00		
WG	SR-90 (FAST)	140.00		

End of document

Internal Chain of Custody

06/12/06 10:00

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L28840-1 Containernum 1

Prod	Analyst
H-3	EJ
SR-90 (FAST)	LCB
GELI	EJ

Relinquish Date Relinquish By
06/01/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28840-1 Containernum 2

Prod	Analyst
H-3	EJ
SR-90 (FAST)	LCB
GELI	EJ

Relinquish Date Relinquish By
06/01/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28840-2 Containernum 1

Prod	Analyst
H-3	EJ
SR-90 (FAST)	LCB
GELI	EJ

Relinquish Date Relinquish By
06/01/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28840-2 Containernum 2

Prod	Analyst
H-3	EJ
SR-90 (FAST)	LCB
GELI	EJ

Relinquish Date Relinquish By
06/01/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28840-3 Containernum 1

Prod	Analyst
H-3	EJ
SR-90 (FAST)	LCB
GELI	EJ

Relinquish Date Relinquish By
06/01/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28840-3 Containernum 2

Prod	Analyst
H-3	EJ
SR-90 (FAST)	LCB
GELI	EJ

Relinquish Date Relinquish By
06/01/2006 00:00

Received By
099999 Sample Custodian

06/12/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28840

****

L28840-1 WG WG-TMI-MW-4-052606-JAS-001

Process step	Prod	Analyst	Date
Login		PMARSHALL	06/01/06
Aliquot	H-3	EJ	06/07/06
Aliquot	GELI	EJ	06/08/06
Aliquot	SR-90 (FAST)	LCB	06/09/06
Count Room	GELI	MVW	06/10/06
Count Room	SR-90 (FAST)	KOJ	06/12/06

****

L28840-2 WG WG-TMI-NW-B-053006-JC-006

Process step	Prod	Analyst	Date
Login		RCHARLES	06/01/06
Aliquot	H-3	EJ	06/07/06
Aliquot	GELI	EJ	06/08/06
Aliquot	SR-90 (FAST)	LCB	06/09/06
Count Room	GELI	MVW	06/10/06
Count Room	SR-90 (FAST)	KOJ	06/12/06

****

L28840-3 WG WG-TMI-NW-C-053006-JC-007

Process step	Prod	Analyst	Date
Login		RCHARLES	06/01/06
Aliquot	H-3	EJ	06/07/06
Aliquot	GELI	EJ	06/08/06
Aliquot	SR-90 (FAST)	LCB	06/09/06
Count Room	GELI	MVW	06/10/06
Count Room	SR-90 (FAST)	KOJ	06/12/06

Analytical Results Summary

Report of Analysis

06/12/06 16:28

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28840

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-MW-4-052606-JAS-001**
Station:
Description:
LIMS Number: L28840-1

Collect Start: 05/26/2006 11:20
Collect Stop:
Receive Date: 06/01/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3	2010	1.24E+02	1.11E+02	**1.69E+02**	pCi/L		10	ml		06/11/06	60	M	U			
TOTAL SR	2018	7.83E-01	5.22E-01	**8.09E-01**	pCi/L		450	ml	05/26/06 11:20	06/12/06	400	M	U			
MN-54	2007	1.68E+00	2.41E+00	**4.04E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
CO-58	2007	-3.16E+00	2.60E+00	**4.03E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
FE-59	2007	5.79E+00	5.31E+00	**9.15E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
CO-60	2007	1.89E-01	2.27E+00	**3.76E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
ZN-65	2007	3.60E+00	5.94E+00	**8.49E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
NB-95	2007	2.29E+00	2.67E+00	**4.52E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
ZR-95	2007	-4.19E+00	4.77E+00	**7.55E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
CS-134	2007	3.02E+00	6.02E+00	**4.40E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
CS-137	2007	2.37E+00	2.45E+00	**4.19E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
BA-140	2007	9.93E+00	1.80E+01	**3.00E+01**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	
LA-140	2007	-8.64E-01	5.91E+00	**9.70E+00**	pCi/L		3017.98	ml	05/26/06 11:20	06/10/06	28800	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/12/06 16:28

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28840

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-NW-B-053006-JC-006**
Station:
Description:
LIMS Number: L28840-2

Collect Start: 05/30/2006 17:20
Collect Stop:
Receive Date: 06/01/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**2.42E+03**	2.93E+02	2.40E+02	pCi/L		10	ml		06/11/06	29.21	M	+	High	
TOTAL SR	2018	8.66E-02	4.55E-01	**7.44E-01**	pCi/L		450	ml	05/30/06 17:20	06/12/06	400	M	U		
MN-54	2007	1.56E+00	2.52E+00	**4.27E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No
CO-58	2007	-2.35E+00	2.83E+00	**4.47E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No
FE-59	2007	1.97E+00	5.51E+00	**9.29E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No
CO-60	2007	3.58E-01	2.68E+00	**4.41E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No
ZN-65	2007	1.50E+01	6.28E+00	**1.05E+01**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U*		No
NB-95	2007	1.89E+00	2.69E+00	**4.61E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No
ZR-95	2007	-1.39E+00	4.72E+00	**7.72E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No
CS-134	2007	7.73E+00	3.81E+00	**5.07E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U*		No
CS-137	2007	2.42E+00	2.67E+00	**4.54E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No
BA-140	2007	1.05E+01	1.55E+01	**2.64E+01**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No
LA-140	2007	9.27E-01	5.30E+00	**8.82E+00**	pCi/L		3016.86	ml	05/30/06 17:20	06/10/06	28800	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/12/06 16:28

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28840

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-NW-C-053006-JC-007**
Station:
Description:
LIMS Number: L28840-3

Collect Start: 05/30/2006 17:25
Collect Stop:
Receive Date: 06/01/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3	2010	**3.65E+03**	4.16E+02	2.91E+02	pCi/L		10	ml		06/11/06	20.96	M	+	High		
TOTAL SR	2018	2.77E-01	4.21E-01	**6.74E-01**	pCi/L		450	ml	05/30/06 17:25	06/12/06	400	M	U			
MN-54	2007	3.01E+00	2.00E+00	**3.60E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
CO-58	2007	6.04E-01	2.07E+00	**3.57E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
FE-59	2007	2.39E+00	4.06E+00	**7.20E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
CO-60	2007	-2.49E+00	1.78E+00	**2.80E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
ZN-65	2007	5.98E+00	4.87E+00	**7.66E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
NB-95	2007	2.79E+00	2.07E+00	**3.71E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
ZR-95	2007	1.27E-01	3.69E+00	**6.30E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U*		No	
CS-134	2007	1.00E+01	4.33E+00	**4.13E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
CS-137	2007	6.97E-01	2.09E+00	**3.62E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
BA-140	2007	3.90E+00	1.24E+01	**2.10E+01**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	
LA-140	2007	1.31E+00	3.55E+00	**6.37E+00**	pCi/L		3016.3	ml	05/30/06 17:25	06/10/06	28800	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

QC Results Summary

QC Summary Report for L28840

6/12/2006 4:34:07PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

H-3

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4099-1	H-3	WO	06/06/2006 23:51	< 1.890E+00	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4099-2	H-3	WO	06/07/2006 0:55	5.05E+002	4.770E+02	pCi/Total	94.5	70-130	+	P

Spike ID: 3H-041706-1
Spike conc: 5.05E+002
Spike Vol: 1.00E+000

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4099-3 L28834-11	H-3	WG	06/07/2006 1:14	1.870E+02	< 1.870E+02	pCi/L		<30	*	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28840

6/12/2006 4:34:07PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28840 **H-3**

Associated Samples for **WG4099**

SAMPLENUM	CLIENTID
L28840-1	WG-TMI-MW-4-052606-JAS-001
L28840-2	WG-TMI-NW-B-053006-JC-006
L28840-3	WG-TMI-NW-C-053006-JC-007

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28840

6/12/2006 4:34:07PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

TOTAL SR

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4133-1	TOTAL SR	WO	06/12/2006 8:10	< 4.830E-01	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4133-2	TOTAL SR	WO	06/11/2006 23:28	5.84E+001	6.620E+01	pCi/Total	113.4	70-130	+	P

Spike ID: 90SR-011905
Spike conc: 2.34E+002
Spike Vol: 2.50E-001

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4133-4 L28821-1	TOTAL SR	WG	06/12/2006 8:10	< 6.910E-01	1.110E+00	pCi/L		<30	*	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28840

6/12/2006 4:34:07PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28840 **SR-90 (FAST)**

Associated Samples for **WG4133**

SAMPLENUM	CLIENTID
L28840-1	WG-TMI-MW-4-052606-JAS-001
L28840-2	WG-TMI-NW-B-053006-JC-006
L28840-3	WG-TMI-NW-C-053006-JC-007

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

Raw Data

Raw Data Sheet (rawdata)
Jun 12 2006, 04:42 pm

Work Order: L28840 Customer: Exelon

Nuclide: H-3 Project : EX001-3ESPTMI-06

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L28840-1		H-3		10 ml			0		11-jun-06 06:38	LS7	139	60	1.73	60	.212		EJ
WG-TMI-MW-4-052606-JAS																	
Activity: 1.24E+02		Error: 1.11E+02		MDC: 1.69E+02 *													
L28840-2		H-3		10 ml			0		11-jun-06 07:41	LS7	385	29.21	1.73	60	.214		EJ
WG-TMI-NW-B-053006-JC-																	
Activity: 2.42E+03 *		Error: 2.93E+02		MDC: 2.4E+02													
L28840-3		H-3		10 ml			0		11-jun-06 08:14	LS7	388	20.96	1.73	60	.207		EJ
WG-TMI-NW-C-053006-JC-																	
Activity: 3.65E+03 *		Error: 4.16E+02		MDC: 2.91E+02													

Raw Data Sheet (rawdata)
Jun 12 2006, 04:42 pm

Work Order: *L28840* Customer: *Exelon*

Nuclide: *SR-90 (FAST)* Project : *EX001-3ESPTMI-06*

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L28840-1		TOTAL SR	26-may-06		11-jun-06		0		12-jun-06	X4C	377	400	299	400	.35	.999	LCB
WG-TMI-MW-4-052606-JAS			11:20	450 ml	13:00			71.24	08:10								
Activity: 7.83E-01	Error: 5.22E-01		MDC: 8.09E-01 *														
L28840-2		TOTAL SR	30-may-06		11-jun-06		0		12-jun-06	X4D	350	400	340	400	.353	.999	LCB
WG-TMI-NW-B-053006-JC-			17:20	450 ml	13:00			81.99	08:10								
Activity: 8.66E-02	Error: 4.55E-01		MDC: 7.44E-01 *														
L28840-3		TOTAL SR	30-may-06		11-jun-06		0		12-jun-06	Y1A	311	400	279	400	.341	.999	LCB
WG-TMI-NW-C-053006-JC-			17:25	450 ml	13:00			84.95	08:16								
Activity: 2.77E-01	Error: 4.21E-01		MDC: 6.74E-01 *														

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 10-JUN-2006 20:39:59.67
TBE14 P-10933A HpGe ********** Aquisition Date/Time: 10-JUN-2006 12:39:43.10

LIMS No., Customer Name, Client ID: WG L28840-1 EXELON TMI

Sample ID : 14L28840-1
Sample Type : WG
Quantity : 3.01800E+00 L
Start Channel : 90 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 26-MAY-2006 11:20:00.
Geometry : 143L082304
BKGFILE : 14BG060306MT
Real Time : 0 08:00:04.65
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.49	250	1068	1.38	133.98	5.16E-01	8.68E-03	24.5	4.71E-01
2	1	92.63*	58	840	1.62	186.40	1.28E+00	2.00E-03	100.5	1.28E+00
3	1	140.15	287	1024	2.02	281.66	1.90E+00	9.96E-03	22.3	8.18E-01
4	1	186.08*	47	769	2.08	373.73	1.88E+00	1.63E-03	128.1	7.70E-01
5	1	198.50*	273	656	1.57	398.61	1.83E+00	9.46E-03	20.3	3.02E+00
6	1	351.86*	115	445	2.98	705.70	1.28E+00	4.00E-03	45.9	1.45E+00
7	1	595.84	133	246	1.58	1193.46	8.48E-01	4.60E-03	24.2	8.46E-01
8	1	609.33*	66	404	2.58	1220.40	8.33E-01	2.30E-03	83.7	1.84E+00
9	1	911.12*	9	117	1.26	1822.35	6.16E-01	3.12E-04	289.5	6.18E-01
10	1	968.82*	33	96	3.74	1937.28	5.89E-01	1.13E-03	74.0	2.24E+00
11	1	1120.36*	36	104	4.63	2238.86	5.30E-01	1.24E-03	76.7	3.84E+00
12	1	1461.44*	34	42	3.06	2916.31	4.36E-01	1.19E-03	79.1	2.77E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	34	10.67*	4.361E-01	2.284E+01	2.284E+01	158.11
RA-226	186.21	47	3.28*	1.876E+00	2.367E+01	2.367E+01	256.22
AC-228	835.50	------	1.75	6.571E-01	------	Line Not Found	------
	911.07	9	27.70*	6.165E-01	1.639E+00	1.647E+00	578.99
TH-232	583.14	------	30.25	8.620E-01	------	Line Not Found	------
	911.07	9	27.70*	6.165E-01	1.639E+00	1.639E+00	578.99
	969.11	33	16.60	5.893E-01	1.038E+01	1.038E+01	148.06
U-235	143.76	------	10.50*	1.907E+00	------	Line Not Found	------
	163.35	------	4.70	1.923E+00	------	Line Not Found	------
	185.71	47	54.00	1.876E+00	1.438E+00	1.438E+00	256.22
	205.31	------	4.70	1.809E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 14L28840-1

Acquisition date : 10-JUN-2006 12:39:43

Total number of lines in spectrum	12	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	4	33.33%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.284E+01	2.284E+01	3.611E+01	158.11	
RA-226	1600.00Y	1.00	2.367E+01	2.367E+01	6.064E+01	256.22	
AC-228	5.75Y	1.01	1.639E+00	1.647E+00	9.535E+00	578.99	
TH-232	1.41E+10Y	1.00	1.639E+00	1.639E+00	9.487E+00	578.99	
U-235	7.04E+08Y	1.00	1.438E+00	1.438E+00	3.683E+00	256.22	K
			---	---			
	Total Activity :		5.122E+01	5.123E+01			

Grand Total Activity : 5.122E+01 5.123E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 14L28840-1

Acquisition date : 10-JUN-2006 12:39:43

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.49	250	1068	1.38	133.98	130	9	8.68E-03	49.0	5.16E-01	
1	92.63	58	840	1.62	186.40	183	8	2.00E-03	****	1.28E+00	
1	140.15	287	1024	2.02	281.66	276	11	9.96E-03	44.7	1.90E+00	
1	198.50	273	656	1.57	398.61	393	10	9.46E-03	40.7	1.83E+00	
1	351.86	115	445	2.98	705.70	698	14	4.00E-03	91.9	1.28E+00	
1	595.84	133	246	1.58	1193.46	1189	11	4.60E-03	48.4	8.48E-01	
1	609.33	66	404	2.58	1220.40	1211	21	2.30E-03	****	8.33E-01	
1	1120.36	36	104	4.63	2238.86	2229	17	1.24E-03	****	5.30E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	12	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	4	33.33%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.284E+01	2.284E+01	3.611E+01	158.11	
RA-226	1600.00Y	1.00	2.367E+01	2.367E+01	6.064E+01	256.22	
TH-232	1.41E+10Y	1.00	4.051E+00	4.051E+00	8.074E+00	199.33	
		Total Activity :	5.056E+01	5.056E+01			

Grand Total Activity : 5.056E+01 5.056E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

Interfering Nuclide	Interfering Line	Interfered Nuclide	Interfered Line
TH-232	911.07	AC-228	911.07

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	2.284E+01	3.611E+01	3.306E+01	0.000E+00	0.691
RA-226	2.367E+01	6.064E+01	8.807E+01	0.000E+00	0.269
TH-232	4.051E+00	8.074E+00	1.384E+01	0.000E+00	0.293

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-9.921E+00		2.282E+01	3.709E+01	0.000E+00	-0.268
NA-24	-2.145E+01		2.536E+01	Half-Life too short		
CR-51	-3.228E+00		2.806E+01	4.586E+01	0.000E+00	-0.070
MN-54	1.684E+00		2.407E+00	4.040E+00	0.000E+00	0.417
CO-57	-1.207E+00		2.315E+00	3.806E+00	0.000E+00	-0.317
CO-58	-3.156E+00		2.604E+00	4.030E+00	0.000E+00	-0.783
FE-59	5.794E+00		5.313E+00	9.153E+00	0.000E+00	0.633
CO-60	1.887E-01		2.274E+00	3.762E+00	0.000E+00	0.050
ZN-65	3.595E+00		5.938E+00	8.490E+00	0.000E+00	0.423
SE-75	-8.705E-01		3.251E+00	5.348E+00	0.000E+00	-0.163
SR-85	2.143E+01		3.062E+00	5.852E+00	0.000E+00	3.663
Y-88	-1.090E+00		2.833E+00	4.517E+00	0.000E+00	-0.241
NB-94	1.340E+00		2.270E+00	3.823E+00	0.000E+00	0.351
NB-95	2.286E+00		2.669E+00	4.523E+00	0.000E+00	0.506
ZR-95	-4.188E+00		4.766E+00	7.545E+00	0.000E+00	-0.555
MO-99	-1.120E+02		7.846E+02	1.282E+03	0.000E+00	-0.087
RU-103	2.403E+00		3.002E+00	5.056E+00	0.000E+00	0.475
RU-106	9.288E+00		2.407E+01	3.602E+01	0.000E+00	0.258
AG-110m	1.011E+00		2.289E+00	3.851E+00	0.000E+00	0.263
SN-113	-2.116E+00		3.205E+00	5.097E+00	0.000E+00	-0.415
SB-124	-2.571E+00		6.947E+00	4.523E+00	0.000E+00	-0.568
SB-125	6.534E+00		6.635E+00	1.130E+01	0.000E+00	0.578
TE-129M	1.077E+01		3.432E+01	5.720E+01	0.000E+00	0.188
I-131	-3.522E+00		8.426E+00	1.356E+01	0.000E+00	-0.260
BA-133	5.731E+00		3.719E+00	5.426E+00	0.000E+00	1.056
CS-134	3.018E+00		6.015E+00	4.398E+00	0.000E+00	0.686
CS-136	-9.074E-01		4.811E+00	7.790E+00	0.000E+00	-0.116
CS-137	2.371E+00		2.445E+00	4.190E+00	0.000E+00	0.566
CE-139	1.560E+00		2.360E+00	3.919E+00	0.000E+00	0.398
BA-140	9.933E+00		1.798E+01	2.999E+01	0.000E+00	0.331
LA-140	-8.637E-01		5.911E+00	9.698E+00	0.000E+00	-0.089
CE-141	4.940E+00		5.999E+00	8.586E+00	0.000E+00	0.575
CE-144	3.947E+00		2.072E+01	2.928E+01	0.000E+00	0.135
EU-152	-6.839E+00		8.367E+00	1.115E+01	0.000E+00	-0.614
EU-154	-2.365E+00		4.712E+00	7.747E+00	0.000E+00	-0.305
AC-228	1.647E+00		9.535E+00	1.444E+01	0.000E+00	0.114
TH-228	6.451E+00		4.544E+00	7.235E+00	0.000E+00	0.892
U-235	3.894E+01		2.041E+01	3.001E+01	0.000E+00	1.298
U-238	1.238E+02		2.456E+02	4.140E+02	0.000E+00	0.299
AM-241	-4.420E+01		3.448E+01	4.853E+01	0.000E+00	-0.911

```
A,14L28840-1        ,06/10/2006 20:40,05/26/2006 11:20,   3.018E+00,WG L28840-1 EX
B,14L28840-1        ,LIBD                   ,06/02/2006 08:23,143L082304
C,K-40     ,YES,   2.284E+01,   3.611E+01,   3.306E+01,,    0.691
C,RA-226   ,YES,   2.367E+01,   6.064E+01,   8.807E+01,,    0.269
C,TH-232   ,YES,   4.051E+00,   8.074E+00,   1.384E+01,,    0.293
C,BE-7     ,NO ,  -9.921E+00,   2.282E+01,   3.709E+01,,   -0.268
C,CR-51    ,NO ,  -3.228E+00,   2.806E+01,   4.586E+01,,   -0.070
C,MN-54    ,NO ,   1.684E+00,   2.407E+00,   4.040E+00,,    0.417
C,CO-57    ,NO ,  -1.207E+00,   2.315E+00,   3.806E+00,,   -0.317
C,CO-58    ,NO ,  -3.156E+00,   2.604E+00,   4.030E+00,,   -0.783
C,FE-59    ,NO ,   5.794E+00,   5.313E+00,   9.153E+00,,    0.633
C,CO-60    ,NO ,   1.887E-01,   2.274E+00,   3.762E+00,,    0.050
C,ZN-65    ,NO ,   3.595E+00,   5.938E+00,   8.490E+00,,    0.423
C,SE-75    ,NO ,  -8.705E-01,   3.251E+00,   5.348E+00,,   -0.163
C,SR-85    ,NO ,   2.143E+01,   3.062E+00,   5.852E+00,,    3.663
C,Y-88     ,NO ,  -1.090E+00,   2.833E+00,   4.517E+00,,   -0.241
C,NB-94    ,NO ,   1.340E+00,   2.270E+00,   3.823E+00,,    0.351
C,NB-95    ,NO ,   2.286E+00,   2.669E+00,   4.523E+00,,    0.506
C,ZR-95    ,NO ,  -4.188E+00,   4.766E+00,   7.545E+00,,   -0.555
C,MO-99    ,NO ,  -1.120E+02,   7.846E+02,   1.282E+03,,   -0.087
C,RU-103   ,NO ,   2.403E+00,   3.002E+00,   5.056E+00,,    0.475
C,RU-106   ,NO ,   9.288E+00,   2.407E+01,   3.602E+01,,    0.258
C,AG-110m  ,NO ,   1.011E+00,   2.289E+00,   3.851E+00,,    0.263
C,SN-113   ,NO ,  -2.116E+00,   3.205E+00,   5.097E+00,,   -0.415
C,SB-124   ,NO ,  -2.571E+00,   6.947E+00,   4.523E+00,,   -0.568
C,SB-125   ,NO ,   6.534E+00,   6.635E+00,   1.130E+01,,    0.578
C,TE-129M  ,NO ,   1.077E+01,   3.432E+01,   5.720E+01,,    0.188
C,I-131    ,NO ,  -3.522E+00,   8.426E+00,   1.356E+01,,   -0.260
C,BA-133   ,NO ,   5.731E+00,   3.719E+00,   5.426E+00,,    1.056
C,CS-134   ,NO ,   3.018E+00,   6.015E+00,   4.398E+00,,    0.686
C,CS-136   ,NO ,  -9.074E-01,   4.811E+00,   7.790E+00,,   -0.116
C,CS-137   ,NO ,   2.371E+00,   2.445E+00,   4.190E+00,,    0.566
C,CE-139   ,NO ,   1.560E+00,   2.360E+00,   3.919E+00,,    0.398
C,BA-140   ,NO ,   9.933E+00,   1.798E+01,   2.999E+01,,    0.331
C,LA-140   ,NO ,  -8.637E-01,   5.911E+00,   9.698E+00,,   -0.089
C,CE-141   ,NO ,   4.940E+00,   5.999E+00,   8.586E+00,,    0.575
C,CE-144   ,NO ,   3.947E+00,   2.072E+01,   2.928E+01,,    0.135
C,EU-152   ,NO ,  -6.839E+00,   8.367E+00,   1.115E+01,,   -0.614
C,EU-154   ,NO ,  -2.365E+00,   4.712E+00,   7.747E+00,,   -0.305
C,AC-228   ,NO ,   1.647E+00,   9.535E+00,   1.444E+01,,    0.114
C,TH-228   ,NO ,   6.451E+00,   4.544E+00,   7.235E+00,,    0.892
C,U-235    ,NO ,   3.894E+01,   2.041E+01,   3.001E+01,,    1.298
C,U-238    ,NO ,   1.238E+02,   2.456E+02,   4.140E+02,,    0.299
C,AM-241   ,NO ,  -4.420E+01,   3.448E+01,   4.853E+01,,   -0.911
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 12-JUN-2006 00:41:51.49
TBE15 P-10635B HpGe ********** Aquisition Date/Time: 10-JUN-2006 12:39:48.19

LIMS No., Customer Name, Client ID: WG L28840-2 EXELON TMI

Sample ID : 15L28840-2
Sample Type : WG
Quantity : 3.01690E+00 L
Start Channel : 40 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 30-MAY-2006 17:20:00.
Geometry : 153L082604
BKGFILE : 15BG060306MT
Real Time : 0 08:00:02.88
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	65.98	157	831	1.47	119.42	4.86E-01	5.45E-03	32.7	1.65E+00
2	1	139.62	231	872	1.39	267.51	1.66E+00	8.02E-03	24.8	7.49E-01
3	1	197.73	128	649	1.27	384.37	1.54E+00	4.45E-03	37.1	4.10E+00
4	1	294.40	127	443	1.62	578.76	1.18E+00	4.41E-03	34.6	2.90E+00
5	1	351.53*	112	374	1.42	693.64	1.02E+00	3.90E-03	38.6	1.25E+00
6	1	594.82	76	189	2.04	1182.69	6.55E-01	2.63E-03	38.5	2.07E+00
7	1	607.90	223	158	2.01	1208.98	6.44E-01	7.73E-03	13.1	4.10E+00
8	1	1118.72	79	56	2.12	2235.30	3.97E-01	2.76E-03	21.8	9.50E-01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 15L28840-2

Acquisition date : 10-JUN-2006 12:39:48

Total number of lines in spectrum	8	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	0	0.00%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 15L28840-2

Acquisition date : 10-JUN-2006 12:39:48

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	65.98	157	831	1.47	119.42	116	8	5.45E-03	65.4	4.86E-01	
1	139.62	231	872	1.39	267.51	262	10	8.02E-03	49.6	1.66E+00	
1	197.73	128	649	1.27	384.37	381	9	4.45E-03	74.1	1.54E+00	
1	294.40	127	443	1.62	578.76	574	12	4.41E-03	69.1	1.18E+00	
1	351.53	112	374	1.42	693.64	687	11	3.90E-03	77.2	1.02E+00	
1	594.82	76	189	2.04	1182.69	1176	12	2.63E-03	77.0	6.55E-01	
1	607.90	223	158	2.01	1208.98	1204	12	7.73E-03	26.2	6.44E-01	
1	1118.72	79	56	2.12	2235.30	2231	12	2.76E-03	43.5	3.97E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 8
Number of unidentified lines 8
Number of lines tentatively identified by NID 0 0.00%
**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-5.571E+00		2.368E+01	3.907E+01	0.000E+00	-0.143
NA-24	-1.824E-01		2.515E-01	Half-Life too short		
K-40	9.414E+01		3.682E+01	6.461E+01	0.000E+00	1.457
CR-51	-9.202E+00		2.634E+01	4.314E+01	0.000E+00	-0.213
MN-54	1.555E+00		2.517E+00	4.272E+00	0.000E+00	0.364
CO-57	-2.549E+00		2.496E+00	3.755E+00	0.000E+00	-0.679
CO-58	-2.351E+00		2.825E+00	4.473E+00	0.000E+00	-0.526
FE-59	1.965E+00		5.506E+00	9.287E+00	0.000E+00	0.212
CO-60	3.583E-01		2.680E+00	4.407E+00	0.000E+00	0.081
ZN-65	1.497E+01		6.284E+00	1.045E+01	0.000E+00	1.432
SE-75	3.154E-01		3.379E+00	5.473E+00	0.000E+00	0.058
SR-85	1.162E+01		3.123E+00	5.715E+00	0.000E+00	2.034
Y-88	-2.380E+00		3.133E+00	4.874E+00	0.000E+00	-0.488
NB-94	-1.222E-01		2.469E+00	3.998E+00	0.000E+00	-0.031
NB-95	1.887E+00		2.692E+00	4.605E+00	0.000E+00	0.410
ZR-95	-1.387E+00		4.721E+00	7.716E+00	0.000E+00	-0.180
MO-99	2.451E+02		2.821E+02	4.875E+02	0.000E+00	0.503
RU-103	5.501E-01		2.957E+00	4.941E+00	0.000E+00	0.111
RU-106	-1.191E+01		2.416E+01	3.868E+01	0.000E+00	-0.308
AG-110m	-7.324E-01		2.512E+00	4.039E+00	0.000E+00	-0.181

SN-113	1.182E+00	3.438E+00	5.684E+00	0.000E+00	0.208
SB-124	3.611E+00	5.812E+00	4.691E+00	0.000E+00	0.770
SB-125	-5.729E-01	7.135E+00	1.157E+01	0.000E+00	-0.050
TE-129M	3.494E+01	3.583E+01	6.006E+01	0.000E+00	0.582
I-131	-1.112E-01	6.298E+00	1.033E+01	0.000E+00	-0.011
BA-133	1.981E+00	3.906E+00	5.578E+00	0.000E+00	0.355
CS-134	7.729E+00	3.813E+00	5.073E+00	0.000E+00	1.524
CS-136	2.474E+00	4.340E+00	7.357E+00	0.000E+00	0.336
CS-137	2.424E+00	2.674E+00	4.540E+00	0.000E+00	0.534
CE-139	-8.104E-01	2.336E+00	3.833E+00	0.000E+00	-0.211
BA-140	1.052E+01	1.554E+01	2.636E+01	0.000E+00	0.399
LA-140	9.268E-01	5.302E+00	8.816E+00	0.000E+00	0.105
CE-141	3.335E+00	5.391E+00	7.811E+00	0.000E+00	0.427
CE-144	-8.331E+00	2.075E+01	2.931E+01	0.000E+00	-0.284
EU-152	-6.741E+00	9.098E+00	1.230E+01	0.000E+00	-0.548
EU-154	-3.079E+00	5.112E+00	7.761E+00	0.000E+00	-0.397
RA-226	1.126E+01	6.302E+01	9.563E+01	0.000E+00	0.118
AC-228	7.406E+00	9.345E+00	1.592E+01	0.000E+00	0.465
TH-228	3.457E+00	4.923E+00	7.468E+00	0.000E+00	0.463
TH-232	7.379E+00	9.312E+00	1.586E+01	0.000E+00	0.465
U-235	4.440E+00	1.989E+01	2.850E+01	0.000E+00	0.156
U-238	4.355E+02	2.960E+02	5.187E+02	0.000E+00	0.840
AM-241	-1.965E+01	2.880E+01	4.340E+01	0.000E+00	-0.453

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A,15L28840-2       ,06/12/2006 00:41,05/30/2006 17:20,   3.017E+00,WG L28840-2 EX
B,15L28840-2       ,LIBD                  ,06/06/2006 10:43,153L082604
C,BE-7     ,NO ,  -5.571E+00,   2.368E+01,   3.907E+01,,   -0.143
C,K-40     ,NO ,   9.414E+01,   3.682E+01,   6.461E+01,,    1.457
C,CR-51    ,NO ,  -9.202E+00,   2.634E+01,   4.314E+01,,   -0.213
C,MN-54    ,NO ,   1.555E+00,   2.517E+00,   4.272E+00,,    0.364
C,CO-57    ,NO ,  -2.549E+00,   2.496E+00,   3.755E+00,,   -0.679
C,CO-58    ,NO ,  -2.351E+00,   2.825E+00,   4.473E+00,,   -0.526
C,FE-59    ,NO ,   1.965E+00,   5.506E+00,   9.287E+00,,    0.212
C,CO-60    ,NO ,   3.583E-01,   2.680E+00,   4.407E+00,,    0.081
C,ZN-65    ,NO ,   1.497E+01,   6.284E+00,   1.045E+01,,    1.432
C,SE-75    ,NO ,   3.154E-01,   3.379E+00,   5.473E+00,,    0.058
C,SR-85    ,NO ,   1.162E+01,   3.123E+00,   5.715E+00,,    2.034
C,Y-88     ,NO ,  -2.380E+00,   3.133E+00,   4.874E+00,,   -0.488
C,NB-94    ,NO ,  -1.222E-01,   2.469E+00,   3.998E+00,,   -0.031
C,NB-95    ,NO ,   1.887E+00,   2.692E+00,   4.605E+00,,    0.410
C,ZR-95    ,NO ,  -1.387E+00,   4.721E+00,   7.716E+00,,   -0.180
C,MO-99    ,NO ,   2.451E+02,   2.821E+02,   4.875E+02,,    0.503
C,RU-103   ,NO ,   5.501E-01,   2.957E+00,   4.941E+00,,    0.111
C,RU-106   ,NO ,  -1.191E+01,   2.416E+01,   3.868E+01,,   -0.308
C,AG-110m  ,NO ,  -7.324E-01,   2.512E+00,   4.039E+00,,   -0.181
C,SN-113   ,NO ,   1.182E+00,   3.438E+00,   5.684E+00,,    0.208
C,SB-124   ,NO ,   3.611E+00,   5.812E+00,   4.691E+00,,    0.770
C,SB-125   ,NO ,  -5.729E-01,   7.135E+00,   1.157E+01,,   -0.050
C,TE-129M  ,NO ,   3.494E+01,   3.583E+01,   6.006E+01,,    0.582
C,I-131    ,NO ,  -1.112E-01,   6.298E+00,   1.033E+01,,   -0.011
C,BA-133   ,NO ,   1.981E+00,   3.906E+00,   5.578E+00,,    0.355
C,CS-134   ,NO ,   7.729E+00,   3.813E+00,   5.073E+00,,    1.524
C,CS-136   ,NO ,   2.474E+00,   4.340E+00,   7.357E+00,,    0.336
C,CS-137   ,NO ,   2.424E+00,   2.674E+00,   4.540E+00,,    0.534
C,CE-139   ,NO ,  -8.104E-01,   2.336E+00,   3.833E+00,,   -0.211
C,BA-140   ,NO ,   1.052E+01,   1.554E+01,   2.636E+01,,    0.399
C,LA-140   ,NO ,   9.268E-01,   5.302E+00,   8.816E+00,,    0.105
C,CE-141   ,NO ,   3.335E+00,   5.391E+00,   7.811E+00,,    0.427
C,CE-144   ,NO ,  -8.331E+00,   2.075E+01,   2.931E+01,,   -0.284
C,EU-152   ,NO ,  -6.741E+00,   9.098E+00,   1.230E+01,,   -0.548
C,EU-154   ,NO ,  -3.079E+00,   5.112E+00,   7.761E+00,,   -0.397
C,RA-226   ,NO ,   1.126E+01,   6.302E+01,   9.563E+01,,    0.118
C,AC-228   ,NO ,   7.406E+00,   9.345E+00,   1.592E+01,,    0.465
C,TH-228   ,NO ,   3.457E+00,   4.923E+00,   7.468E+00,,    0.463
C,TH-232   ,NO ,   7.379E+00,   9.312E+00,   1.586E+01,,    0.465
C,U-235    ,NO ,   4.440E+00,   1.989E+01,   2.850E+01,,    0.156
C,U-238    ,NO ,   4.355E+02,   2.960E+02,   5.187E+02,,    0.840
C,AM-241   ,NO ,  -1.965E+01,   2.880E+01,   4.340E+01,,   -0.453
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 10-JUN-2006 20:40:20.40
TBE23 03017322 HpGe ********** Aquisition Date/Time: 10-JUN-2006 12:39:52.43

LIMS No., Customer Name, Client ID: WG L28840-3 EXELON TMI

Sample ID : 23L28840-3
Sample Type : WG
Quantity : 3.01630E+00 L
Start Channel : 50
End Channel : 4090
MDA Constant : 0.00

Energy Tol : 1.50000
Pk Srch Sens: 5.00000
Library Used: LIBD

Smple Date: 30-MAY-2006 17:25:00.
Geometry : 233L082404
BKGFILE : 23BG060306MT
Real Time : 0 08:00:20.00
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	9	33.77*	123	29	1.18	67.86	8.22E-02	4.26E-03	22.7	4.06E+00
2	9	35.99*	112	388	2.85	72.31	1.19E-01	3.88E-03	60.1	
3	9	39.85*	92	789	2.59	80.03	2.02E-01	3.18E-03	68.0	
4	0	92.45*	38	1306	1.09	185.13	1.93E+00	1.33E-03	198.5	
5	0	139.63*	93	950	1.16	279.43	2.32E+00	3.23E-03	62.6	
6	0	198.44*	251	921	1.21	396.98	2.11E+00	8.70E-03	26.3	
7	0	294.97*	67	561	1.22	589.91	1.64E+00	2.34E-03	74.4	
8	0	350.82*	245	478	1.60	701.55	1.44E+00	8.52E-03	22.0	
9	0	595.44	120	275	1.90	1190.57	9.56E-01	4.15E-03	32.2	
10	0	608.68*	271	247	1.58	1217.03	9.41E-01	9.40E-03	16.6	
11	0	1120.29*	27	108	2.08	2240.10	6.16E-01	9.30E-04	94.3	
12	0	1764.68*	23	50	1.98	3529.25	4.38E-01	8.01E-04	86.2	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L28840-3

Acquisition date : 10-JUN-2006 12:39:52

Total number of lines in spectrum	12	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	0	0.00%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 23L28840-3

Acquisition date : 10-JUN-2006 12:39:52

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
9	33.77	123	29	1.18	67.86	65	22	4.26E-03	45.4	8.22E-02	
9	35.99	112	388	2.85	72.31	65	22	3.88E-03	****	1.19E-01	
9	39.85	92	789	2.59	80.03	65	22	3.18E-03	****	2.02E-01	
0	92.45	38	1306	1.09	185.13	181	9	1.33E-03	****	1.93E+00	
0	139.63	93	950	1.16	279.43	276	7	3.23E-03	****	2.32E+00	
0	198.44	251	921	1.21	396.98	393	11	8.70E-03	52.5	2.11E+00	
0	294.97	67	561	1.22	589.91	585	10	2.34E-03	****	1.64E+00	
0	350.82	245	478	1.60	701.55	695	14	8.52E-03	44.0	1.44E+00	
0	595.44	120	275	1.90	1190.57	1185	16	4.15E-03	64.4	9.56E-01	
0	608.68	271	247	1.58	1217.03	1209	17	9.40E-03	33.1	9.41E-01	
0	1120.29	27	108	2.08	2240.10	2233	12	9.30E-04	****	6.16E-01	
0	1764.68	23	50	1.98	3529.25	3524	14	8.01E-04	****	4.38E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 12
Number of unidentified lines 12
Number of lines tentatively identified by NID 0 0.00%
**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-7.328E+00		1.870E+01	3.096E+01	0.000E+00	-0.237
NA-24	-2.672E-01		1.830E-01	Half-Life too short		
K-40	-3.402E+01		3.020E+01	5.412E+01	0.000E+00	-0.629
CR-51	1.752E+01		2.273E+01	3.905E+01	0.000E+00	0.449
MN-54	3.012E+00		2.003E+00	3.603E+00	0.000E+00	0.836
CO-57	-2.537E+00		2.174E+00	3.571E+00	0.000E+00	-0.710
CO-58	6.040E-01		2.073E+00	3.568E+00	0.000E+00	0.169
FE-59	2.386E+00		4.060E+00	7.204E+00	0.000E+00	0.331
CO-60	-2.492E+00		1.781E+00	2.800E+00	0.000E+00	-0.890
ZN-65	5.979E+00		4.866E+00	7.658E+00	0.000E+00	0.781
SE-75	-1.622E+00		2.902E+00	4.865E+00	0.000E+00	-0.333
SR-85	1.459E+01		2.481E+00	4.740E+00	0.000E+00	3.078
Y-88	-1.164E+00		1.993E+00	3.344E+00	0.000E+00	-0.348
NB-94	6.592E-01		1.874E+00	3.236E+00	0.000E+00	0.204
NB-95	2.789E+00		2.065E+00	3.706E+00	0.000E+00	0.753
ZR-95	1.271E-01		3.690E+00	6.295E+00	0.000E+00	0.020

MO-99	1.395E+02	2.151E+02	3.770E+02	0.000E+00	0.370
RU-103	2.408E+00	2.434E+00	4.201E+00	0.000E+00	0.573
RU-106	1.168E-01	1.818E+01	3.034E+01	0.000E+00	0.004
AG-110m	-9.018E-02	1.922E+00	3.280E+00	0.000E+00	-0.027
SN-113	3.382E-01	2.679E+00	4.529E+00	0.000E+00	0.075
SB-124	1.037E+00	4.675E+00	3.559E+00	0.000E+00	0.291
SB-125	1.028E+00	5.745E+00	9.708E+00	0.000E+00	0.106
TE-129M	1.072E+01	2.736E+01	4.651E+01	0.000E+00	0.231
I-131	2.144E+00	5.090E+00	8.683E+00	0.000E+00	0.247
BA-133	2.292E+00	3.286E+00	4.813E+00	0.000E+00	0.476
CS-134	1.003E+01	4.331E+00	4.126E+00	0.000E+00	2.431
CS-136	1.687E+00	3.220E+00	5.605E+00	0.000E+00	0.301
CS-137	6.973E-01	2.090E+00	3.616E+00	0.000E+00	0.193
CE-139	-1.196E+00	2.221E+00	3.656E+00	0.000E+00	-0.327
BA-140	3.900E+00	1.238E+01	2.095E+01	0.000E+00	0.186
LA-140	1.309E+00	3.549E+00	6.374E+00	0.000E+00	0.205
CE-141	4.112E+00	5.316E+00	7.646E+00	0.000E+00	0.538
CE-144	2.944E+00	2.000E+01	2.842E+01	0.000E+00	0.104
EU-152	-4.987E+00	7.371E+00	1.025E+01	0.000E+00	-0.486
EU-154	-2.831E+00	4.473E+00	7.406E+00	0.000E+00	-0.382
RA-226	-5.911E+01	6.079E+01	9.037E+01	0.000E+00	-0.654
AC-228	-2.510E-01	8.285E+00	1.196E+01	0.000E+00	-0.021
TH-228	5.899E+00	4.478E+00	6.966E+00	0.000E+00	0.847
TH-232	-2.501E-01	8.255E+00	1.191E+01	0.000E+00	-0.021
U-235	8.797E+00	2.101E+01	2.862E+01	0.000E+00	0.307
U-238	2.072E+01	2.308E+02	3.686E+02	0.000E+00	0.056
AM-241	-2.082E+01	1.235E+01	1.969E+01	0.000E+00	-1.057

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A,23L28840-3        ,06/10/2006 20:40,05/30/2006 17:25,   3.016E+00,WG L28840-3 EX
B,23L28840-3        ,LIBD                ,06/01/2006 10:14,233L082404
C,BE-7     ,NO ,  -7.328E+00,   1.870E+01,   3.096E+01,,   -0.237
C,K-40     ,NO ,  -3.402E+01,   3.020E+01,   5.412E+01,,   -0.629
C,CR-51    ,NO ,   1.752E+01,   2.273E+01,   3.905E+01,,    0.449
C,MN-54    ,NO ,   3.012E+00,   2.003E+00,   3.603E+00,,    0.836
C,CO-57    ,NO ,  -2.537E+00,   2.174E+00,   3.571E+00,,   -0.710
C,CO-58    ,NO ,   6.040E-01,   2.073E+00,   3.568E+00,,    0.169
C,FE-59    ,NO ,   2.386E+00,   4.060E+00,   7.204E+00,,    0.331
C,CO-60    ,NO ,  -2.492E+00,   1.781E+00,   2.800E+00,,   -0.890
C,ZN-65    ,NO ,   5.979E+00,   4.866E+00,   7.658E+00,,    0.781
C,SE-75    ,NO ,  -1.622E+00,   2.902E+00,   4.865E+00,,   -0.333
C,SR-85    ,NO ,   1.459E+01,   2.481E+00,   4.740E+00,,    3.078
C,Y-88     ,NO ,  -1.164E+00,   1.993E+00,   3.344E+00,,   -0.348
C,NB-94    ,NO ,   6.592E-01,   1.874E+00,   3.236E+00,,    0.204
C,NB-95    ,NO ,   2.789E+00,   2.065E+00,   3.706E+00,,    0.753
C,ZR-95    ,NO ,   1.271E-01,   3.690E+00,   6.295E+00,,    0.020
C,MO-99    ,NO ,   1.395E+02,   2.151E+02,   3.770E+02,,    0.370
C,RU-103   ,NO ,   2.408E+00,   2.434E+00,   4.201E+00,,    0.573
C,RU-106   ,NO ,   1.168E-01,   1.818E+01,   3.034E+01,,    0.004
C,AG-110m  ,NO ,  -9.018E-02,   1.922E+00,   3.280E+00,,   -0.027
C,SN-113   ,NO ,   3.382E-01,   2.679E+00,   4.529E+00,,    0.075
C,SB-124   ,NO ,   1.037E+00,   4.675E+00,   3.559E+00,,    0.291
C,SB-125   ,NO ,   1.028E+00,   5.745E+00,   9.708E+00,,    0.106
C,TE-129M  ,NO ,   1.072E+01,   2.736E+01,   4.651E+01,,    0.231
C,I-131    ,NO ,   2.144E+00,   5.090E+00,   8.683E+00,,    0.247
C,BA-133   ,NO ,   2.292E+00,   3.286E+00,   4.813E+00,,    0.476
C,CS-134   ,NO ,   1.003E+01,   4.331E+00,   4.126E+00,,    2.431
C,CS-136   ,NO ,   1.687E+00,   3.220E+00,   5.605E+00,,    0.301
C,CS-137   ,NO ,   6.973E-01,   2.090E+00,   3.616E+00,,    0.193
C,CE-139   ,NO ,  -1.196E+00,   2.221E+00,   3.656E+00,,   -0.327
C,BA-140   ,NO ,   3.900E+00,   1.238E+01,   2.095E+01,,    0.186
C,LA-140   ,NO ,   1.309E+00,   3.549E+00,   6.374E+00,,    0.205
C,CE-141   ,NO ,   4.112E+00,   5.316E+00,   7.646E+00,,    0.538
C,CE-144   ,NO ,   2.944E+00,   2.000E+01,   2.842E+01,,    0.104
C,EU-152   ,NO ,  -4.987E+00,   7.371E+00,   1.025E+01,,   -0.486
C,EU-154   ,NO ,  -2.831E+00,   4.473E+00,   7.406E+00,,   -0.382
C,RA-226   ,NO ,  -5.911E+01,   6.079E+01,   9.037E+01,,   -0.654
C,AC-228   ,NO ,  -2.510E-01,   8.285E+00,   1.196E+01,,   -0.021
C,TH-228   ,NO ,   5.899E+00,   4.478E+00,   6.966E+00,,    0.847
C,TH-232   ,NO ,  -2.501E-01,   8.255E+00,   1.191E+01,,   -0.021
C,U-235    ,NO ,   8.797E+00,   2.101E+01,   2.862E+01,,    0.307
C,U-238    ,NO ,   2.072E+01,   2.308E+02,   3.686E+02,,    0.056
C,AM-241   ,NO ,  -2.082E+01,   1.235E+01,   1.969E+01,,   -1.057
```

TELEDYNE
BROWN ENGINEERING
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931
865-690-6819 (Phone)

Work Order #: L28796

Exelon

June 12, 2006

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville CT 06062

Case Narrative - L28796
EX001-3ESPTMI-06

06/12/2006 16:46

Sample Receipt

The following samples were received on May 31, 2006 in good condition, unless otherwise noted.

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-MW-1-052606-JC-004	L28796-2	
WG-TMI-MW-2-052606-JC-002	L28796-3	
WG-TMI-MW-3-052606-JC-003	L28796-4	

Analytical Method Cross Reference Table

Radiological Parameter	TBE Knoxville Method	Reference Method
Gamma Spectrometry	TBE-2007	EPA 901.1
H-3	TBE-2010	EPA 906.0
TOTAL SR	TBE-2018	EPA 905.0

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L28796
EX001-3ESPTMI-06

06/12/2006 16:46

Gamma Spectroscopy

Quality Control

Quality control samples were analyzed as WG4093.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
RB-PB-RB1-052406-JAS-020	L28795-1	WG4093-3

H-3

Quality Control

Quality control samples were analyzed as WG4098.

Method Blank
All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample
All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
RB-PB-RB2-052406-JAS-029	L28795-10	WG4098-3

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L28796
EX001-3ESPTMI-06

06/12/2006 16:46

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4113.

Method Blank
All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample
All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-TMI-MW-1-052606-JC-004	L28796-2	WG4113-3

Certification

This is to certify that Teledyne Brown Engineering - Environmental Services, located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

Keith Jeter
Operations Manager

Sample Receipt Summary

06/02/06 07:41

SR #: SR08683

Client: Exelon

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

Project #: EX001-3ESPTMI-06

LIMS #: L28796

Initiated By: PMARSHALL
Init Date: 06/02/06 Receive Date: 05/31/06

Notification of Variance

Person Notified:
Contacted By:
Notify Date:
Notify Method:
Notify Comment:

Client Response

Person Responding:
Response Date:
Response Method:
Response Comment

	Criteria	Yes No NA	Comment
1	Shipping container custody seals present and intact.	NA	
2	Sample container custody seals present and intact.	NA	
3	Sample containers received in good condition	Y	
4	Chain of custody received with samples	Y	
5	All samples listed on chain of custody received	Y	
6	Sample container labels present and legible.	Y	
7	Information on container labels correspond with chain of custody	Y	
8	Sample(s) properly preserved and in appropriate container(s)	NA	pH<2
9	Other (Describe)	NA	

CHM REALM — JMC 5/30/06

ENCORE — JMC 5/30/06

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

L28796

PAGE 1 OF 1

ID # № 03014

SSOW Ref. Code:

Required Client Information:

Company: CRA	Report To: Kathy SHAW
Address: 45 Farmington Village Dr.	Copy To: Jeff Lambert
	Invoice To:
Plainville, CT, 06062	P.O.:
Phone: 1800 747-1800	Project Name: TMI - Exelon
Fax: 1-860 747-1900	Project Number: 45136-29
E-mail: Kshaw@CRAworld.com	

Laboratory: Teledyne - Brown	
Laboratory Location:	
Laboratory Contact:	
Requested Due Date:	TAT:
QA/QC Requirements:	

Valid Matrix Codes:
WG Groundwater
WB Borehole Water
WS Surface Water
SO Soil
SE Sediment
See Back for Additional Codes

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Tritium	Gamma Emitters	Strontium 89/90	Remarks/Lab ID
1. WG-TMI-MW-1-052606-JC-004	GW	5/26/06	1350	2	1			1			X	X	X	
2. WG-TMI-MW-2-052606-JC-002	↓	↓	1125	2	1			1			X	X	X	most Acid add ~33ml
3. WG-TMI-MW-3-052606-JC-003	↓	↓	1235	2	1			1			X	X	X	
4.														
5.														Contact CRA: Kathy Shaw
6.														
7.														
8.														
9.														
10.														
11.														
12.														
13.														
14.														
15.														

Preservative

Analysis and Method

TOTAL NUMBER OF CONTAINERS 6

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FEDEX	1	J. M. Close / CRA	5/30/06	1342	Simon /	5/30/06	1342
					Pat Marshall	5/31/06	0930
AIRBILL NO.							

Sample Condition

Temp in °C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Samples Intact	Y / N

Additional Comments:

Sampler Name: Jason M. Close

Sampler Signature: J. M. Close

Date: 5/30/06

Distribution: WHITE - Fully Executed Copy YELLOW - Receiving Laboratory Copy PINK - Sampler Copy

REV. 016 (04)

TELEDYNE BROWN ENGINEERING
2508 Quality Lane
Knoxville, TN 37931-3133

6/2/06

ACKNOWLEDGEMENT
This is not an invoice

June 02, 2006

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville, CT 06062

The following sample(s) were received at Teledyne Brown Engineering Knoxville laboratory on May 31, 2006. The sample(s) have been scheduled for the analyses listed below and the report is scheduled for completion by June 07, 2006. Please review the following login information and pricing. Contact me if anything is incorrect or you have questions about the status of your sample(s).

Thank you for choosing Teledyne Brown Engineering for your analytical needs.

Sincerely,
Rebecca Charles
Project Manager
(865)934-0379

Project ID: EX001-3ESPTMI-06
P.O. #: 00411203
Release #:
Contract#: 00411203
Kathy Shaw, FAX#:860-747-1900, larry.walton@exeloncorp.com

Client ID/ Station	Laboratory ID Analysis	Vol/Units Price	Start Collect Date/Time	End Collect Date/Time
WG-TMI-MW-1-052606-JC-004	L28796-2		05/26/06:1350	
WG	GELI	108.00		
WG	H-3	108.00		
WG	SR-90 (FAST)	140.00		
WG-TMI-MW-2-052606-JC-002	L28796-3		05/26/06:1125	
WG	GELI	108.00		
WG	H-3	108.00		
WG	SR-90 (FAST)	140.00		
WG-TMI-MW-3-052606-JC-003	L28796-4		05/26/06:1235	
WG	GELI	108.00		
WG	H-3	108.00		
WG	SR-90 (FAST)	140.00		

End of document

Internal Chain of Custody

06/12/06 16:34

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L28796-2 Containernum 1

Prod	Analyst
H-3	EJ
GELI	EJ
SR-90 (FAST)	LCB

Relinquish Date Relinquish By
05/31/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28796-2 Containernum 2

Prod	Analyst
H-3	EJ
GELI	EJ
SR-90 (FAST)	LCB

Relinquish Date Relinquish By
05/31/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28796-3 Containernum 1

Prod	Analyst
H-3	EJ
GELI	EJ
SR-90 (FAST)	LCB

Relinquish Date Relinquish By
05/31/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28796-3 Containernum 2

Prod	Analyst
H-3	EJ
GELI	EJ
SR-90 (FAST)	LCB

Relinquish Date Relinquish By
05/31/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28796-4 Containernum 1

Prod	Analyst
H-3	EJ
GELI	EJ
SR-90 (FAST)	LCB

Relinquish Date Relinquish By
05/31/2006 00:00

Received By
099999 Sample Custodian

****

Sample # L28796-4 Containernum 2

Prod	Analyst
H-3	EJ
GELI	EJ
SR-90 (FAST)	LCB

Relinquish Date Relinquish By
05/31/2006 00:00

Received By
099999 Sample Custodian

06/12/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28796

****

L28796-2 WG WG-TMI-MW-1-052606-JC-004

Process step	Prod	Analyst	Date
Login		PMARSHALL	05/31/06
Aliquot	GELI	EJ	06/06/06
Aliquot	H-3	EJ	06/07/06
Aliquot	SR-90 (FAST)	LCB	06/08/06
Count Room	GELI	ILL	06/07/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	MVW	06/09/06

****

L28796-3 WG WG-TMI-MW-2-052606-JC-002

Process step	Prod	Analyst	Date
Login		PMARSHALL	05/31/06
Aliquot	GELI	EJ	06/06/06
Aliquot	H-3	EJ	06/07/06
Aliquot	SR-90 (FAST)	LCB	06/08/06
Count Room	GELI	ILL	06/07/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	MVW	06/09/06

****

L28796-4 WG WG-TMI-MW-3-052606-JC-003

Process step	Prod	Analyst	Date
Login		PMARSHALL	05/31/06
Aliquot	GELI	EJ	06/06/06
Aliquot	H-3	EJ	06/07/06
Aliquot	SR-90 (FAST)	LCB	06/08/06
Count Room	GELI	KPW	06/07/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	MVW	06/09/06

Analytical Results Summary

Report of Analysis

06/12/06 16:29

L28796

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-MW-1-052606-JC-004**
Station:
Description:
LIMS Number: L28796-2

Collect Start: 05/26/2006 13:50
Collect Stop:
Receive Date: 05/31/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3	2010	4.63E+01	1.04E+02	**1.67E+02**	pCi/L		10	ml		06/11/06	60	M	U			
TOTAL SR	2018	-1.29E+00	8.74E-01	**1.95E+00**	pCi/L		450	ml	05/26/06 13:50	06/09/06	150	M	U			
MN-54	2007	-7.96E-01	3.53E+00	**5.25E+00**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	
CO-58	2007	-2.50E+00	3.69E+00	**5.75E+00**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	
FE-59	2007	2.58E+00	7.38E+00	**1.25E+01**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	
CO-60	2007	-2.18E+00	3.13E+00	**4.77E+00**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	
ZN-65	2007	1.87E+01	8.45E+00	**1.43E+01**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U*		No	
NB-95	2007	-4.25E-01	3.51E+00	**5.69E+00**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	
ZR-95	2007	-1.86E+00	6.14E+00	**9.84E+00**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	
CS-134	2007	6.49E+00	4.18E+00	**6.45E+00**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U*		No	
CS-137	2007	-7.96E-01	3.59E+00	**5.74E+00**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	
BA-140	2007	1.80E+01	2.10E+01	**3.59E+01**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	
LA-140	2007	-2.60E+00	6.50E+00	**1.02E+01**	pCi/L		3720.8	ml	05/26/06 13:50	06/07/06	10152	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/12/06 16:29

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28796

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: WG-TMI-MW-2-052606-JC-002
Station:
Description:
LIMS Number: L28796-3

Collect Start: 05/26/2006 11:25
Collect Stop:
Receive Date: 05/31/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**2.63E+02**	1.21E+02	1.72E+02	pCi/L		10	ml		06/11/06	60	M	+		
TOTAL SR	2018	-1.33E+00	6.72E-01	**1.56E+00**	pCi/L		450	ml	05/26/06 11:25	06/09/06	150	M	U		
MN-54	2007	3.65E-01	3.22E+00	**5.34E+00**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
CO-58	2007	9.03E-01	3.41E+00	**5.72E+00**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
FE-59	2007	5.29E+00	6.66E+00	**1.17E+01**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
CO-60	2007	1.76E+00	3.20E+00	**5.50E+00**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
ZN-65	2007	3.47E+00	6.80E+00	**1.17E+01**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
NB-95	2007	3.75E+00	3.48E+00	**6.12E+00**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
ZR-95	2007	-1.30E+00	6.01E+00	**9.84E+00**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
CS-134	2007	6.12E+00	6.53E+00	**6.23E+00**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
CS-137	2007	-1.40E+00	3.40E+00	**5.42E+00**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
BA-140	2007	-1.25E+01	2.20E+01	**3.52E+01**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No
LA-140	2007	9.39E+00	6.73E+00	**1.25E+01**	pCi/L		3524.49	ml	05/26/06 11:25	06/07/06	14565	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/12/06 16:29

L28796

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-MW-3-052606-JC-003**
Station:
Description:
LIMS Number: L28796-4

Collect Start: 05/26/2006 12:35
Collect Stop:
Receive Date: 05/31/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	**1.80E+02**	1.13E+02	1.67E+02	pCi/L		10	ml		06/11/06	60	M	+		
TOTAL SR	2018	-7.82E-01	6.83E-01	**1.49E+00**	pCi/L		450	ml	05/26/06 12:35	06/09/06	150	M	U		
MN-54	2007	-3.98E-01	2.75E+00	**4.70E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
CO-58	2007	3.64E-01	2.94E+00	**5.13E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
FE-59	2007	-5.17E-01	5.49E+00	**9.64E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
CO-60	2007	-1.08E-02	2.37E+00	**4.21E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
ZN-65	2007	7.81E+00	6.75E+00	**1.12E+01**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
NB-95	2007	1.08E+00	2.93E+00	**5.19E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
ZR-95	2007	-2.11E+00	5.32E+00	**8.98E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
CS-134	2007	6.87E+00	6.00E+00	**5.47E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
CS-137	2007	-8.62E-01	2.92E+00	**4.98E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
BA-140	2007	7.71E+00	1.91E+01	**3.30E+01**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No
LA-140	2007	3.57E-01	5.49E+00	**9.92E+00**	pCi/L		3501.09	ml	05/26/06 12:35	06/07/06	13168	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

QC Results Summary

QC Summary Report for L28796

6/12/2006 4:34:23PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

H-3

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4098-1	H-3	WO	06/10/2006 1:51	< 1.350E+00	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4098-2	H-3	WO	06/10/2006 2:55	5.05E+002	5.790E+02	pCi/Total	114.7	70-130	+	P

Spike ID: 3H-041706-1
Spike conc: 5.05E+002
Spike Vol: 1.00E+000

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4098-3 L28795-10	H-3	WG	06/10/2006 0:47	< 1.650E+02	< 1.410E+02	pCi/L		<30	**	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28796

6/12/2006 4:34:23PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28796 **H-3**

Associated Samples for **WG4098**

SAMPLENUM	CLIENTID
L28796-2	WG-TMI-MW-1-052606-JC-004
L28796-3	WG-TMI-MW-2-052606-JC-002
L28796-4	WG-TMI-MW-3-052606-JC-003

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28796

6/12/2006 4:34:23PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

TOTAL SR

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4113-1	TOTAL SR	WO	06/09/2006 18:17	< 7.320E-01	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4113-2	TOTAL SR	WO	06/09/2006 15:09	5.84E+001	6.690E+01	pCi/Total	114.6	70-130	+	P

Spike ID: 90SR-011905
Spike conc: 2.34E+002
Spike Vol: 2.50E-001

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4113-3 L28796-2	TOTAL SR	WG	06/09/2006 15:09	< 1.950E+00	< 1.450E+00	pCi/L		<30	**	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L28796

6/12/2006 4:34:23PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28796 **SR-90 (FAST)**

Associated Samples for **WG4113**

SAMPLENUM	CLIENTID
L28796-2	WG-TMI-MW-1-052606-JC-004
L28796-3	WG-TMI-MW-2-052606-JC-002
L28796-4	WG-TMI-MW-3-052606-JC-003

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

Raw Data

Raw Data Sheet (rawdata)
Jun 12 2006, 04:42 pm

Work Order: L28796

Customer: Exelon

Nuclide: H-3

Project : EX001-3ESPTMI-06

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L28796-2		H-3		10 ml			0		11-jun-06 01:03	LS7	117	60	1.73	60	.215		EJ
WG-TMI-MW-1-052606-JC-																	
Activity: 4.63E+01		Error: 1.04E+02		MDC: 1.67E+02 *													
L28796-3		H-3		10 ml			0		11-jun-06 02:07	LS7	176	60	1.73	60	.208		EJ
WG-TMI-MW-2-052606-JC-																	
Activity: 2.63E+02 *		Error: 1.21E+02		MDC: 1.72E+02													
L28796-4		H-3		10 ml			0		11-jun-06 03:10	LS7	155	60	1.73	60	.214		EJ
WG-TMI-MW-3-052606-JC-																	
Activity: 1.8E+02 *		Error: 1.13E+02		MDC: 1.67E+02													

Raw Data Sheet (rawdata)
Jun 12 2006, 04:42 pm

Work Order: *L28796* Customer: *Exelon*

Nuclide: *SR-90 (FAST)* Project : *EX001-3ESPTMI-06*

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L28796-2		TOTAL SR	26-may-06		09-jun-06		0		09-jun-06	Y1C	80	150	300	400	.345	.999	LCB
WG-TMI-MW-1-052606-JC-			13:50	450 ml	08:30			48.92	15:09								
Activity: -1.29E+00 Error: 8.74E-01 MDC: 1.95E+00 *																	
L28796-3		TOTAL SR	26-may-06		09-jun-06		0		09-jun-06	Y1D	72	150	305	400	.362	.999	LCB
WG-TMI-MW-2-052606-JC-			11:25	450 ml	08:30			58.87	15:09								
Activity: -1.33E+00 Error: 6.72E-01 MDC: 1.56E+00 *																	
L28796-4		TOTAL SR	26-may-06		09-jun-06		0		09-jun-06	Y2A	80	150	280	400	.349	.999	LCB
WG-TMI-MW-3-052606-JC-			12:35	450 ml	08:30			61.29	15:09								
Activity: -7.82E-01 Error: 6.83E-01 MDC: 1.49E+00 *																	

Sec. Review: Analyst: KD LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 7-JUN-2006 19:09:58.79
TBE13 P-10727B HpGe ********** Aquisition Date/Time: 7-JUN-2006 14:00:58.15

LIMS No., Customer Name, Client ID: L28796-2 WG EXELON/TMI

Sample ID : 13L28796-2
Sample Type : WG
Quantity : 3.72080E+00 L
Start Channel : 25 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 26-MAY-2006 13:50:00.
Geometry : 1335L090904
BKGFILE : 13BG060306MT
Real Time : 0 02:49:15.19
Live time : 0 02:49:12.28

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	5	63.32*	137	390	1.81	126.75	6.21E-01	1.35E-02	31.7	3.25E+00
2	5	66.35	137	345	1.45	132.81	7.26E-01	1.34E-02	26.1	
3	1	92.50*	10	510	1.61	185.06	1.52E+00	9.79E-04	496.5	3.12E+00
4	1	139.53*	17	302	1.74	279.06	2.02E+00	1.66E-03	192.7	4.98E+00
5	1	185.52*	26	284	1.49	371.00	1.95E+00	2.54E-03	132.4	1.53E+00
6	1	198.99*	72	321	0.95	397.94	1.90E+00	7.06E-03	45.1	1.86E+01
7	1	238.50*	6	339	0.88	476.92	1.73E+00	6.34E-04	586.6	1.64E+00
8	1	295.18*	59	197	2.08	590.23	1.52E+00	5.84E-03	50.2	8.43E-01
9	1	351.92*	93	99	1.69	703.69	1.34E+00	9.19E-03	25.3	9.98E-01
10	1	355.42	53	62	1.69	710.69	1.33E+00	5.23E-03	31.6	
11	1	582.77*	36	70	2.72	1165.39	9.27E-01	3.58E-03	58.5	1.86E+00
12	1	609.32*	56	136	1.63	1218.52	8.96E-01	5.48E-03	51.0	8.06E-01
13	1	845.59	57	47	3.52	1691.28	7.02E-01	5.58E-03	25.6	2.12E+01
14	1	911.40*	24	42	1.99	1822.99	6.64E-01	2.34E-03	68.7	4.72E-01
15	1	1120.14*	30	41	2.72	2240.87	5.69E-01	2.93E-03	55.6	4.82E+00
16	1	1461.00*	25	24	2.13	2923.59	4.69E-01	2.50E-03	65.2	1.31E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	25	10.67*	4.688E-01	3.633E+01	3.633E+01	130.47
RA-226	186.21	26	3.28*	1.947E+00	2.887E+01	2.887E+01	264.85
AC-228	835.50	------	1.75	7.084E-01	------ Line Not Found		------
	911.07	24	27.70*	6.639E-01	9.229E+00	9.265E+00	137.38
TH-228	238.63	6	44.60*	1.733E+00	5.960E-01	6.031E-01	1173.30
	240.98	------	3.95	1.723E+00	------ Line Not Found		------
TH-232	583.14	36	30.25	9.266E-01	9.290E+00	9.290E+00	116.91
	911.07	24	27.70*	6.639E-01	9.229E+00	9.229E+00	137.38
	969.11	------	16.60	6.342E-01	------ Line Not Found		------
U-235	143.76	------	10.50*	2.023E+00	------ Line Not Found		------
	163.35	------	4.70	2.011E+00	------ Line Not Found		------
	185.71	26	54.00	1.947E+00	1.754E+00	1.754E+00	264.85
	205.31	------	4.70	1.871E+00	------ Line Not Found		------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 13L28796-2

Acquisition date : 7-JUN-2006 14:00:58

Total number of lines in spectrum	16	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	6	37.50%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.633E+01	3.633E+01	4.740E+01	130.47	
RA-226	1600.00Y	1.00	2.887E+01	2.887E+01	7.646E+01	264.85	
AC-228	5.75Y	1.00	9.229E+00	9.265E+00	12.73E+00	137.38	
TH-228	1.91Y	1.01	5.960E-01	6.031E-01	70.77E-01	1173.30	
TH-232	1.41E+10Y	1.00	9.229E+00	9.229E+00	12.68E+00	137.38	
U-235	7.04E+08Y	1.00	1.754E+00	1.754E+00	4.644E+00	264.85	K
			---	---			
Total Activity :			8.601E+01	8.605E+01			

Grand Total Activity : 8.601E+01 8.605E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 13L28796-2

Acquisition date : 7-JUN-2006 14:00:58

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	63.32	137	390	1.81	126.75	121	16	1.35E-02	63.5	6.21E-01	
5	66.35	137	345	1.45	132.81	121	16	1.34E-02	52.3	7.26E-01	
1	92.50	10	510	1.61	185.06	178	12	9.79E-04	****	1.52E+00	
1	139.53	17	302	1.74	279.06	276	8	1.66E-03	****	2.02E+00	
1	198.99	72	321	0.95	397.94	393	8	7.06E-03	90.2	1.90E+00	
1	295.18	59	197	2.08	590.23	585	11	5.84E-03	****	1.52E+00	
1	351.92	93	99	1.69	703.69	696	19	9.19E-03	50.5	1.34E+00	
1	355.42	53	62	1.69	710.69	696	19	5.23E-03	63.1	1.33E+00	T
1	609.32	56	136	1.63	1218.52	1211	15	5.48E-03	****	8.96E-01	
1	845.59	57	47	3.52	1691.28	1687	12	5.58E-03	51.2	7.02E-01	
1	1120.14	30	41	2.72	2240.87	2231	15	2.93E-03	****	5.69E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	16	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	6	37.50%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.633E+01	3.633E+01	4.740E+01	130.47	
RA-226	1600.00Y	1.00	2.887E+01	2.887E+01	7.646E+01	264.85	
TH-228	1.91Y	1.01	5.960E-01	6.031E-01	70.77E-01	1173.30	
TH-232	1.41E+10Y	1.00	9.264E+00	9.264E+00	8.248E+00	89.03	
			---	---			
	Total Activity :		7.506E+01	7.507E+01			

Grand Total Activity : 7.506E+01 7.507E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

Interfering		Interfered	
Nuclide	Line	Nuclide	Line
TH-232	911.07	AC-228	911.07

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	3.633E+01	4.740E+01	4.691E+01	0.000E+00	0.775
RA-226	2.887E+01	7.646E+01	1.219E+02	0.000E+00	0.237

TH-228	6.031E-01	7.077E+00	8.734E+00	0.000E+00	0.069
TH-232	9.264E+00	8.248E+00	1.967E+01	0.000E+00	0.471

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	6.859E+00		3.114E+01	5.183E+01	0.000E+00	0.132
NA-24	-1.758E+00		1.099E+00	Half-Life too short		
CR-51	-2.896E+01		3.435E+01	5.450E+01	0.000E+00	-0.531
MN-54	-7.959E-01		3.529E+00	5.248E+00	0.000E+00	-0.152
CO-57	1.142E+00		3.290E+00	5.376E+00	0.000E+00	0.212
CO-58	-2.503E+00		3.690E+00	5.745E+00	0.000E+00	-0.436
FE-59	2.582E+00		7.380E+00	1.254E+01	0.000E+00	0.206
CO-60	-2.175E+00		3.127E+00	4.770E+00	0.000E+00	-0.456
ZN-65	1.866E+01		8.448E+00	1.429E+01	0.000E+00	1.306
SE-75	4.542E-01		4.248E+00	7.080E+00	0.000E+00	0.064
SR-85	2.449E+01		4.133E+00	8.208E+00	0.000E+00	2.984
Y-88	1.144E+00		3.597E+00	6.139E+00	0.000E+00	0.186
NB-94	1.564E+00		3.210E+00	5.419E+00	0.000E+00	0.289
NB-95	-4.249E-01		3.505E+00	5.685E+00	0.000E+00	-0.075
ZR-95	-1.858E+00		6.135E+00	9.841E+00	0.000E+00	-0.189
MO-99	-4.196E+02		4.601E+02	7.069E+02	0.000E+00	-0.593
RU-103	1.043E+00		3.737E+00	6.227E+00	0.000E+00	0.167
RU-106	1.842E+00		3.033E+01	4.795E+01	0.000E+00	0.038
AG-110m	-2.079E-01		3.204E+00	5.273E+00	0.000E+00	-0.039
SN-113	2.683E+00		4.389E+00	7.322E+00	0.000E+00	0.366
SB-124	-1.614E+00		4.317E+00	5.873E+00	0.000E+00	-0.275
SB-125	2.276E+00		8.793E+00	1.476E+01	0.000E+00	0.154
TE-129M	4.970E+01		4.430E+01	7.697E+01	0.000E+00	0.646
I-131	-5.055E-02		9.317E+00	1.420E+01	0.000E+00	-0.004
BA-133	4.759E+00	+	3.004E+00	7.732E+00	0.000E+00	0.615
CS-134	6.487E+00		4.180E+00	6.450E+00	0.000E+00	1.006
CS-136	4.503E-01		6.245E+00	1.021E+01	0.000E+00	0.044
CS-137	-7.962E-01		3.588E+00	5.744E+00	0.000E+00	-0.139
CE-139	1.438E-02		3.250E+00	5.365E+00	0.000E+00	0.003
BA-140	1.795E+01		2.100E+01	3.589E+01	0.000E+00	0.500
LA-140	-2.601E+00		6.501E+00	1.024E+01	0.000E+00	-0.254
CE-141	1.128E+01		7.367E+00	1.108E+01	0.000E+00	1.018
CE-144	-7.100E+00		2.851E+01	4.006E+01	0.000E+00	-0.177
EU-152	-1.150E+01		1.181E+01	1.530E+01	0.000E+00	-0.751
EU-154	5.277E+00		6.718E+00	1.111E+01	0.000E+00	0.475
AC-228	9.265E+00		1.273E+01	2.171E+01	0.000E+00	0.427
U-235	2.592E+01		2.756E+01	4.033E+01	0.000E+00	0.643
U-238	-3.231E+02		3.750E+02	5.665E+02	0.000E+00	-0.570
AM-241	2.163E+01		3.047E+01	4.466E+01	0.000E+00	0.484

```
A,13L28796-2        ,06/07/2006 19:10,05/26/2006 13:50,   3.721E+00,L28796-2 WG EX
B,13L28796-2        ,LIBD                   ,06/07/2006 09:34,1335L090904
C,K-40     ,YES,    3.633E+01,   4.740E+01,   4.691E+01,,    0.775
C,RA-226   ,YES,    2.887E+01,   7.646E+01,   1.219E+02,,    0.237
C,TH-228   ,YES,    6.031E-01,   7.077E+00,   8.734E+00,,    0.069
C,TH-232   ,YES,    9.264E+00,   8.248E+00,   1.967E+01,,    0.471
C,BE-7     ,NO ,    6.859E+00,   3.114E+01,   5.183E+01,,    0.132
C,CR-51    ,NO ,   -2.896E+01,   3.435E+01,   5.450E+01,,   -0.531
C,MN-54    ,NO ,   -7.959E-01,   3.529E+00,   5.248E+00,,   -0.152
C,CO-57    ,NO ,    1.142E+00,   3.290E+00,   5.376E+00,,    0.212
C,CO-58    ,NO ,   -2.503E+00,   3.690E+00,   5.745E+00,,   -0.436
C,FE-59    ,NO ,    2.582E+00,   7.380E+00,   1.254E+01,,    0.206
C,CO-60    ,NO ,   -2.175E+00,   3.127E+00,   4.770E+00,,   -0.456
C,ZN-65    ,NO ,    1.866E+01,   8.448E+00,   1.429E+01,,    1.306
C,SE-75    ,NO ,    4.542E-01,   4.248E+00,   7.080E+00,,    0.064
C,SR-85    ,NO ,    2.449E+01,   4.133E+00,   8.208E+00,,    2.984
C,Y-88     ,NO ,    1.144E+00,   3.597E+00,   6.139E+00,,    0.186
C,NB-94    ,NO ,    1.564E+00,   3.210E+00,   5.419E+00,,    0.289
C,NB-95    ,NO ,   -4.249E-01,   3.505E+00,   5.685E+00,,   -0.075
C,ZR-95    ,NO ,   -1.858E+00,   6.135E+00,   9.841E+00,,   -0.189
C,MO-99    ,NO ,   -4.196E+02,   4.601E+02,   7.069E+02,,   -0.593
C,RU-103   ,NO ,    1.043E+00,   3.737E+00,   6.227E+00,,    0.167
C,RU-106   ,NO ,    1.842E+00,   3.033E+01,   4.795E+01,,    0.038
C,AG-110m  ,NO ,   -2.079E-01,   3.204E+00,   5.273E+00,,   -0.039
C,SN-113   ,NO ,    2.683E+00,   4.389E+00,   7.322E+00,,    0.366
C,SB-124   ,NO ,   -1.614E+00,   4.317E+00,   5.873E+00,,   -0.275
C,SB-125   ,NO ,    2.276E+00,   8.793E+00,   1.476E+01,,    0.154
C,TE-129M  ,NO ,    4.970E+01,   4.430E+01,   7.697E+01,,    0.646
C,I-131    ,NO ,   -5.055E-02,   9.317E+00,   1.420E+01,,   -0.004
C,BA-133   ,NO ,    4.759E+00,   3.004E+00,   7.732E+00,,    0.615
C,CS-134   ,NO ,    6.487E+00,   4.180E+00,   6.450E+00,,    1.006
C,CS-136   ,NO ,    4.503E-01,   6.245E+00,   1.021E+01,,    0.044
C,CS-137   ,NO ,   -7.962E-01,   3.588E+00,   5.744E+00,,   -0.139
C,CE-139   ,NO ,    1.438E-02,   3.250E+00,   5.365E+00,,    0.003
C,BA-140   ,NO ,    1.795E+01,   2.100E+01,   3.589E+01,,    0.500
C,LA-140   ,NO ,   -2.601E+00,   6.501E+00,   1.024E+01,,   -0.254
C,CE-141   ,NO ,    1.128E+01,   7.367E+00,   1.108E+01,,    1.018
C,CE-144   ,NO ,   -7.100E+00,   2.851E+01,   4.006E+01,,   -0.177
C,EU-152   ,NO ,   -1.150E+01,   1.181E+01,   1.530E+01,,   -0.751
C,EU-154   ,NO ,    5.277E+00,   6.718E+00,   1.111E+01,,    0.475
C,AC-228   ,NO ,    9.265E+00,   1.273E+01,   2.171E+01,,    0.427
C,U-235    ,NO ,    2.592E+01,   2.756E+01,   4.033E+01,,    0.643
C,U-238    ,NO ,   -3.231E+02,   3.750E+02,   5.665E+02,,   -0.570
C,AM-241   ,NO ,    2.163E+01,   3.047E+01,   4.466E+01,,    0.484
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Sec. Review: Analyst: KD LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 7-JUN-2006 19:14:09.80
TBE10 12892256 HpGe ********** Aquisition Date/Time: 7-JUN-2006 15:08:48.92

LIMS No., Customer Name, Client ID: L28796-3 WG EXELON/TMI

Sample ID : 10L28796-3
Sample Type : WG
Quantity : 3.52450E+00 L
Start Channel : 80 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 26-MAY-2006 11:25:00.
Geometry : 1035L091004
BKGFILE : 10BG060306MT
Real Time : 0 04:02:47.75
Live time : 0 04:02:45.27

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.48*	102	510	1.23	132.07	6.39E-01	7.01E-03	41.3	8.89E-01
2	1	139.92	164	364	1.80	279.01	1.68E+00	1.12E-02	21.7	1.89E+00
3	1	185.68*	28	312	1.06	370.58	1.59E+00	1.91E-03	124.5	1.11E+00
4	1	198.89	189	466	2.32	397.01	1.55E+00	1.30E-02	25.0	2.31E+00
5	1	294.63	72	225	2.48	588.58	1.22E+00	4.97E-03	40.8	1.97E+00
6	1	352.26*	38	219	1.68	703.90	1.06E+00	2.62E-03	82.9	2.32E+00
7	1	511.27*	22	132	3.17	1022.12	7.97E-01	1.50E-03	170.7	1.20E+00
8	1	583.15*	25	104	1.91	1165.97	7.18E-01	1.75E-03	92.5	1.30E+00
9	1	596.01	42	105	1.63	1191.70	7.06E-01	2.85E-03	50.1	1.58E+00
10	1	609.50*	109	120	1.87	1218.70	6.94E-01	7.52E-03	26.4	1.31E+00
11	1	1039.23	32	7	2.44	2078.81	4.58E-01	2.20E-03	26.1	1.45E+00
12	1	1461.13*	10	35	2.56	2923.43	3.56E-01	7.17E-04	187.8	1.08E+00
13	1	1631.34	36	13	3.00	3264.22	3.30E-01	2.44E-03	23.7	3.46E+00
14	1	1765.74	83	24	8.26	3533.33	3.13E-01	5.68E-03	19.1	4.00E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	10	10.67*	3.558E-01	1.448E+01	1.448E+01	375.50
RA-226	186.21	28	3.28*	1.595E+00	2.805E+01	2.805E+01	249.04
U-235	143.76	------	10.50*	1.683E+00	------	Line Not Found	------
	163.35	------	4.70	1.659E+00	------	Line Not Found	------
	185.71	28	54.00	1.595E+00	1.704E+00	1.704E+00	249.04
	205.31	------	4.70	1.524E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L28796-3

Acquisition date : 7-JUN-2006 15:08:48

Total number of lines in spectrum	14	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	3	21.43%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.448E+01	1.448E+01	5.437E+01	375.50	
RA-226	1600.00Y	1.00	2.805E+01	2.805E+01	6.985E+01	249.04	
U-235	7.04E+08Y	1.00	1.704E+00	1.704E+00	4.242E+00	249.04	K
			---	---			
	Total Activity :		4.423E+01	4.423E+01			

Grand Total Activity : 4.423E+01 4.423E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 10L28796-3

Acquisition date : 7-JUN-2006 15:08:48

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.48	102	510	1.23	132.07	128	8	7.01E-03	82.5	6.39E-01	
1	139.92	164	364	1.80	279.01	276	8	1.12E-02	43.5	1.68E+00	
1	198.89	189	466	2.32	397.01	391	13	1.30E-02	50.1	1.55E+00	
1	294.63	72	225	2.48	588.58	583	10	4.97E-03	81.7	1.22E+00	
1	352.26	38	219	1.68	703.90	698	11	2.62E-03	****	1.06E+00	
1	511.27	22	132	3.17	1022.12	1015	18	1.50E-03	****	7.97E-01	
1	583.15	25	104	1.91	1165.97	1158	13	1.75E-03	****	7.18E-01	T
1	596.01	42	105	1.63	1191.70	1186	11	2.85E-03	****	7.06E-01	
1	609.50	109	120	1.87	1218.70	1210	16	7.52E-03	52.8	6.94E-01	
1	1039.23	32	7	2.44	2078.81	2074	12	2.20E-03	52.2	4.58E-01	
1	1631.34	36	13	3.00	3264.22	3253	13	2.44E-03	47.4	3.30E-01	
1	1765.74	83	24	8.26	3533.33	3526	23	5.68E-03	38.3	3.13E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	14	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	3	21.43%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.448E+01	1.448E+01	5.437E+01	375.50	
RA-226	1600.00Y	1.00	2.805E+01	2.805E+01	6.985E+01	249.04	
		Total Activity :	4.253E+01	4.253E+01			

Grand Total Activity : 4.253E+01 4.253E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	1.448E+01	5.437E+01	5.122E+01	0.000E+00	0.283
RA-226	2.805E+01	6.985E+01	1.266E+02	0.000E+00	0.222

---- Non-Identified Nuclides ----

Key-Line

Nuclide	Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.209E+00		2.934E+01	4.877E+01	0.000E+00	0.025
NA-24	-2.362E+00		1.343E+00	Half-Life too short		
CR-51	-1.725E+01		3.549E+01	5.737E+01	0.000E+00	-0.301
MN-54	3.652E-01		3.215E+00	5.343E+00	0.000E+00	0.068
CO-57	-2.745E+00		3.255E+00	5.276E+00	0.000E+00	-0.520
CO-58	9.026E-01		3.405E+00	5.719E+00	0.000E+00	0.158
FE-59	5.290E+00		6.657E+00	1.168E+01	0.000E+00	0.453
CO-60	1.758E+00		3.202E+00	5.497E+00	0.000E+00	0.320
ZN-65	3.468E+00		6.801E+00	1.167E+01	0.000E+00	0.297
SE-75	-4.625E+00		4.492E+00	7.206E+00	0.000E+00	-0.642
SR-85	2.752E+01		4.431E+00	8.199E+00	0.000E+00	3.356
Y-88	1.310E+00		3.697E+00	6.272E+00	0.000E+00	0.209
NB-94	2.681E+00		3.141E+00	5.349E+00	0.000E+00	0.501
NB-95	3.750E+00		3.481E+00	6.120E+00	0.000E+00	0.613
ZR-95	-1.295E+00		6.005E+00	9.835E+00	0.000E+00	-0.132
MO-99	-2.581E+02		4.561E+02	7.299E+02	0.000E+00	-0.354
RU-103	-3.548E+00		3.670E+00	5.789E+00	0.000E+00	-0.613
RU-106	-5.690E+00		3.023E+01	4.686E+01	0.000E+00	-0.121
AG-110m	4.424E-01		3.162E+00	5.204E+00	0.000E+00	0.085
SN-113	1.519E+00		4.399E+00	7.277E+00	0.000E+00	0.209
SB-124	-1.486E+00		8.555E+00	5.750E+00	0.000E+00	-0.258
SB-125	-8.002E+00		9.166E+00	1.429E+01	0.000E+00	-0.560
TE-129M	-2.239E-01		4.199E+01	6.976E+01	0.000E+00	-0.003
I-131	-3.870E+00		8.871E+00	1.425E+01	0.000E+00	-0.272
BA-133	7.791E+00		5.246E+00	7.854E+00	0.000E+00	0.992
CS-134	6.123E+00		6.531E+00	6.230E+00	0.000E+00	0.983
CS-136	-2.705E-01		5.628E+00	9.270E+00	0.000E+00	-0.029
CS-137	-1.402E+00		3.403E+00	5.420E+00	0.000E+00	-0.259
CE-139	1.594E+00		3.273E+00	5.429E+00	0.000E+00	0.294
BA-140	-1.245E+01		2.197E+01	3.524E+01	0.000E+00	-0.353
LA-140	9.389E+00		6.726E+00	1.248E+01	0.000E+00	0.752
CE-141	1.505E+00		8.118E+00	1.141E+01	0.000E+00	0.132
CE-144	-1.631E+00		2.940E+01	4.111E+01	0.000E+00	-0.040
EU-152	-6.258E+00		1.176E+01	1.580E+01	0.000E+00	-0.396
EU-154	-6.848E+00		6.620E+00	1.068E+01	0.000E+00	-0.641
AC-228	-7.668E+00		1.262E+01	1.948E+01	0.000E+00	-0.394
TH-228	8.353E+00		6.174E+00	1.044E+01	0.000E+00	0.800
TH-232	-7.637E+00		1.257E+01	1.940E+01	0.000E+00	-0.394
U-235	4.198E+01		2.867E+01	4.214E+01	0.000E+00	0.996
U-238	5.074E+01		3.397E+02	5.607E+02	0.000E+00	0.090
AM-241	-3.370E+01		3.214E+01	4.459E+01	0.000E+00	-0.756

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A,10L28796-3        ,06/07/2006 19:14,05/26/2006 11:25,   3.524E+00,L28796-3 WG  E
B,10L28796-3        ,LIBD                   ,06/07/2006 09:32,1035L091004
C,K-40     ,YES,    1.448E+01,   5.437E+01,   5.122E+01,,    0.283
C,RA-226   ,YES,    2.805E+01,   6.985E+01,   1.266E+02,,    0.222
C,BE-7     ,NO ,    1.209E+00,   2.934E+01,   4.877E+01,,    0.025
C,CR-51    ,NO ,   -1.725E+01,   3.549E+01,   5.737E+01,,   -0.301
C,MN-54    ,NO ,    3.652E-01,   3.215E+00,   5.343E+00,,    0.068
C,CO-57    ,NO ,   -2.745E+00,   3.255E+00,   5.276E+00,,   -0.520
C,CO-58    ,NO ,    9.026E-01,   3.405E+00,   5.719E+00,,    0.158
C,FE-59    ,NO ,    5.290E+00,   6.657E+00,   1.168E+01,,    0.453
C,CO-60    ,NO ,    1.758E+00,   3.202E+00,   5.497E+00,,    0.320
C,ZN-65    ,NO ,    3.468E+00,   6.801E+00,   1.167E+01,,    0.297
C,SE-75    ,NO ,   -4.625E+00,   4.492E+00,   7.206E+00,,   -0.642
C,SR-85    ,NO ,    2.752E+01,   4.431E+00,   8.199E+00,,    3.356
C,Y-88     ,NO ,    1.310E+00,   3.697E+00,   6.272E+00,,    0.209
C,NB-94    ,NO ,    2.681E+00,   3.141E+00,   5.349E+00,,    0.501
C,NB-95    ,NO ,    3.750E+00,   3.481E+00,   6.120E+00,,    0.613
C,ZR-95    ,NO ,   -1.295E+00,   6.005E+00,   9.835E+00,,   -0.132
C,MO-99    ,NO ,   -2.581E+02,   4.561E+02,   7.299E+02,,   -0.354
C,RU-103   ,NO ,   -3.548E+00,   3.670E+00,   5.789E+00,,   -0.613
C,RU-106   ,NO ,   -5.690E+00,   3.023E+01,   4.686E+01,,   -0.121
C,AG-110m  ,NO ,    4.424E-01,   3.162E+00,   5.204E+00,,    0.085
C,SN-113   ,NO ,    1.519E+00,   4.399E+00,   7.277E+00,,    0.209
C,SB-124   ,NO ,   -1.486E+00,   8.555E+00,   5.750E+00,,   -0.258
C,SB-125   ,NO ,   -8.002E+00,   9.166E+00,   1.429E+01,,   -0.560
C,TE-129M  ,NO ,   -2.239E-01,   4.199E+01,   6.976E+01,,   -0.003
C,I-131    ,NO ,   -3.870E+00,   8.871E+00,   1.425E+01,,   -0.272
C,BA-133   ,NO ,    7.791E+00,   5.246E+00,   7.854E+00,,    0.992
C,CS-134   ,NO ,    6.123E+00,   6.531E+00,   6.230E+00,,    0.983
C,CS-136   ,NO ,   -2.705E-01,   5.628E+00,   9.270E+00,,   -0.029
C,CS-137   ,NO ,   -1.402E+00,   3.403E+00,   5.420E+00,,   -0.259
C,CE-139   ,NO ,    1.594E+00,   3.273E+00,   5.429E+00,,    0.294
C,BA-140   ,NO ,   -1.245E+01,   2.197E+01,   3.524E+01,,   -0.353
C,LA-140   ,NO ,    9.389E+00,   6.726E+00,   1.248E+01,,    0.752
C,CE-141   ,NO ,    1.505E+00,   8.118E+00,   1.141E+01,,    0.132
C,CE-144   ,NO ,   -1.631E+00,   2.940E+01,   4.111E+01,,   -0.040
C,EU-152   ,NO ,   -6.258E+00,   1.176E+01,   1.580E+01,,   -0.396
C,EU-154   ,NO ,   -6.848E+00,   6.620E+00,   1.068E+01,,   -0.641
C,AC-228   ,NO ,   -7.668E+00,   1.262E+01,   1.948E+01,,   -0.394
C,TH-228   ,NO ,    8.353E+00,   6.174E+00,   1.044E+01,,    0.800
C,TH-232   ,NO ,   -7.637E+00,   1.257E+01,   1.940E+01,,   -0.394
C,U-235    ,NO ,    4.198E+01,   2.867E+01,   4.214E+01,,    0.996
C,U-238    ,NO ,    5.074E+01,   3.397E+02,   5.607E+02,,    0.090
C,AM-241   ,NO ,   -3.370E+01,   3.214E+01,   4.459E+01,,   -0.756
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Sec. Review: Analyst: KOS LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 7-JUN-2006 18:56:16.18
TBE23 03017322 HpGe ********** Aquisition Date/Time: 7-JUN-2006 15:16:24.03

LIMS No., Customer Name, Client ID: WG L28796-4 TMI

Sample ID : 23L28796-4
Sample Type : WG
Quantity : 3.50110E+00 L
Start Channel : 50 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 26-MAY-2006 12:35:00.
Geometry : 2335L090704
BKGFILE : 23BG060306MT
Real Time : 0 03:39:37.67
Live time : 0 03:39:28.42

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	7	33.89*	60	18	1.43	68.10	9.53E-02	4.58E-03	35.9	1.49E+00
2	7	35.27*	6	53	2.22	70.86	1.17E-01	4.30E-04	567.1	
3	7	37.29*	44	137	2.29	74.90	1.55E-01	3.36E-03	90.6	
4	7	40.01*	51	205	2.09	80.33	2.14E-01	3.84E-03	72.9	
5	7	42.53*	50	288	2.37	85.38	2.76E-01	3.79E-03	78.5	
6	7	45.96*	45	227	1.59	92.23	3.72E-01	3.38E-03	60.9	
7	0	92.49*	26	501	1.22	185.21	1.69E+00	2.00E-03	167.1	
8	0	139.86*	61	425	1.13	279.89	2.05E+00	4.64E-03	63.6	
9	0	185.73*	62	559	1.65	371.56	1.95E+00	4.70E-03	83.1	
10	0	198.17*	102	386	1.46	396.44	1.90E+00	7.77E-03	39.0	
11	0	295.12*	30	267	1.20	590.21	1.50E+00	2.26E-03	110.2	
12	0	351.30*	67	178	1.67	702.51	1.32E+00	5.07E-03	44.3	
13	0	596.27	102	102	0.79	1192.22	8.73E-01	7.71E-03	24.9	
14	0	608.98*	79	105	1.57	1217.63	8.59E-01	6.03E-03	34.0	
15	0	982.43	33	24	4.37	1964.39	6.05E-01	2.51E-03	34.4	
16	0	1064.45	21	46	1.74	2128.42	5.72E-01	1.58E-03	72.2	
17	0	1120.38*	26	26	1.88	2240.29	5.52E-01	1.99E-03	50.8	
18	0	1764.72*	24	5	2.42	3529.33	4.00E-01	1.83E-03	40.4	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
RA-226	186.21	62	3.28*	1.947E+00	5.686E+01	5.686E+01	166.27

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L28796-4

Acquisition date : 7-JUN-2006 15:16:24

Total number of lines in spectrum	18	
Number of unidentified lines	17	
Number of lines tentatively identified by NID	1	5.56%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
RA-226	1600.00Y	1.00	5.686E+01	5.686E+01	9.454E+01	166.27	
	Total Activity :		5.686E+01	5.686E+01			

Grand Total Activity : 5.686E+01 5.686E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 23L28796-4

Acquisition date : 7-JUN-2006 15:16:24

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
7	33.89	60	18	1.43	68.10	65	31	4.58E-03	71.8	9.53E-02	
7	35.27	6	53	2.22	70.86	65	31	4.30E-04	****	1.17E-01	
7	37.29	44	137	2.29	74.90	65	31	3.36E-03	****	1.55E-01	
7	40.01	51	205	2.09	80.33	65	31	3.84E-03	****	2.14E-01	
7	42.53	50	288	2.37	85.38	65	31	3.79E-03	****	2.76E-01	
7	45.96	45	227	1.59	92.23	65	31	3.38E-03	****	3.72E-01	
0	92.49	26	501	1.22	185.21	182	8	2.00E-03	****	1.69E+00	
0	139.86	61	425	1.13	279.89	276	8	4.64E-03	****	2.05E+00	
0	198.17	102	386	1.46	396.44	393	10	7.77E-03	78.1	1.90E+00	
0	295.12	30	267	1.20	590.21	585	10	2.26E-03	****	1.50E+00	
0	351.30	67	178	1.67	702.51	697	11	5.07E-03	88.5	1.32E+00	
0	596.27	102	102	0.79	1192.22	1184	17	7.71E-03	49.7	8.73E-01	
0	608.98	79	105	1.57	1217.63	1211	16	6.03E-03	68.0	8.59E-01	
0	982.43	33	24	4.37	1964.39	1958	12	2.51E-03	68.8	6.05E-01	
0	1064.45	21	46	1.74	2128.42	2122	14	1.58E-03	****	5.72E-01	
0	1120.38	26	26	1.88	2240.29	2235	11	1.99E-03	****	5.52E-01	
0	1764.72	24	5	2.42	3529.33	3524	12	1.83E-03	80.8	4.00E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	18	
Number of unidentified lines	17	
Number of lines tentatively identified by NID	1	5.56%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
RA-226	1600.00Y	1.00	5.686E+01	5.686E+01	9.454E+01	166.27	
			---	---			
	Total Activity :		5.686E+01	5.686E+01			

Grand Total Activity : 5.686E+01 5.686E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
RA-226	5.686E+01	9.454E+01	1.255E+02	0.000E+00	0.453

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	4.305E-01		2.703E+01	4.591E+01	0.000E+00	0.009
NA-24	-9.236E-01		9.657E-01	Half-Life too short		
K-40	-1.208E+01		4.130E+01	8.203E+01	0.000E+00	-0.147
CR-51	-1.995E+01		3.196E+01	5.332E+01	0.000E+00	-0.374
MN-54	-3.983E-01		2.747E+00	4.699E+00	0.000E+00	-0.085
CO-57	3.085E+00		3.151E+00	5.409E+00	0.000E+00	0.570
CO-58	3.639E-01		2.943E+00	5.128E+00	0.000E+00	0.071
FE-59	-5.169E-01		5.494E+00	9.639E+00	0.000E+00	-0.054
CO-60	-1.080E-02		2.367E+00	4.207E+00	0.000E+00	-0.003
ZN-65	7.814E+00		6.748E+00	1.116E+01	0.000E+00	0.700
SE-75	-1.569E+00		4.084E+00	6.902E+00	0.000E+00	-0.227
SR-85	1.319E+01		3.444E+00	6.623E+00	0.000E+00	1.991
Y-88	1.313E-01		3.076E+00	5.536E+00	0.000E+00	0.024
NB-94	-3.130E-01		2.518E+00	4.333E+00	0.000E+00	-0.072
NB-95	1.084E+00		2.933E+00	5.187E+00	0.000E+00	0.209
ZR-95	-2.112E+00		5.316E+00	8.980E+00	0.000E+00	-0.235
MO-99	-5.469E+00		4.340E+02	7.505E+02	0.000E+00	-0.007
RU-103	8.103E-01		3.593E+00	6.141E+00	0.000E+00	0.132
RU-106	-7.456E+00		2.512E+01	4.117E+01	0.000E+00	-0.181
AG-110m	2.277E+00		2.535E+00	4.634E+00	0.000E+00	0.491
SN-113	9.076E-01		3.827E+00	6.575E+00	0.000E+00	0.138
SB-124	1.527E+00		6.639E+00	5.207E+00	0.000E+00	0.293
SB-125	-4.683E+00		8.113E+00	1.344E+01	0.000E+00	-0.348
TE-129M	-1.280E+01		4.070E+01	6.808E+01	0.000E+00	-0.188
I-131	-1.053E+00		8.343E+00	1.413E+01	0.000E+00	-0.075
BA-133	2.310E+00		4.688E+00	6.930E+00	0.000E+00	0.333
CS-134	6.874E+00		6.000E+00	5.468E+00	0.000E+00	1.257
CS-136	-4.037E+00		5.007E+00	8.208E+00	0.000E+00	-0.492
CS-137	-8.616E-01		2.915E+00	4.975E+00	0.000E+00	-0.173
CE-139	1.954E+00		3.261E+00	5.525E+00	0.000E+00	0.354
BA-140	7.711E+00		1.909E+01	3.299E+01	0.000E+00	0.234
LA-140	3.569E-01		5.489E+00	9.918E+00	0.000E+00	0.036
CE-141	6.496E+00		7.736E+00	1.132E+01	0.000E+00	0.574
CE-144	3.599E+00		2.883E+01	4.124E+01	0.000E+00	0.087
EU-152	-1.962E+00		1.059E+01	1.511E+01	0.000E+00	-0.130
EU-154	1.578E+00		6.503E+00	1.099E+01	0.000E+00	0.144
AC-228	-1.315E+00		1.130E+01	1.816E+01	0.000E+00	-0.072
TH-228	1.300E+01		5.969E+00	1.022E+01	0.000E+00	1.273
TH-232	-1.309E+00		1.125E+01	1.808E+01	0.000E+00	-0.072
U-235	1.593E+01		2.873E+01	4.098E+01	0.000E+00	0.389
U-238	1.376E+02		3.027E+02	5.286E+02	0.000E+00	0.260
AM-241	-1.594E+01		1.771E+01	2.858E+01	0.000E+00	-0.558

```
A,23L28796-4        ,06/07/2006 18:56,05/26/2006 12:35,   3.501E+00,WG L28796-4 TM
B,23L28796-4        ,LIBD                  ,06/01/2006 10:14,2335L090704
C,RA-226   ,YES,    5.686E+01,   9.454E+01,   1.255E+02,,    0.453
C,BE-7     ,NO ,    4.305E-01,   2.703E+01,   4.591E+01,,    0.009
C,K-40     ,NO ,   -1.208E+01,   4.130E+01,   8.203E+01,,   -0.147
C,CR-51    ,NO ,   -1.995E+01,   3.196E+01,   5.332E+01,,   -0.374
C,MN-54    ,NO ,   -3.983E-01,   2.747E+00,   4.699E+00,,   -0.085
C,CO-57    ,NO ,    3.085E+00,   3.151E+00,   5.409E+00,,    0.570
C,CO-58    ,NO ,    3.639E-01,   2.943E+00,   5.128E+00,,    0.071
C,FE-59    ,NO ,   -5.169E-01,   5.494E+00,   9.639E+00,,   -0.054
C,CO-60    ,NO ,   -1.080E-02,   2.367E+00,   4.207E+00,,   -0.003
C,ZN-65    ,NO ,    7.814E+00,   6.748E+00,   1.116E+01,,    0.700
C,SE-75    ,NO ,   -1.569E+00,   4.084E+00,   6.902E+00,,   -0.227
C,SR-85    ,NO ,    1.319E+01,   3.444E+00,   6.623E+00,,    1.991
C,Y-88     ,NO ,    1.313E-01,   3.076E+00,   5.536E+00,,    0.024
C,NB-94    ,NO ,   -3.130E-01,   2.518E+00,   4.333E+00,,   -0.072
C,NB-95    ,NO ,    1.084E+00,   2.933E+00,   5.187E+00,,    0.209
C,ZR-95    ,NO ,   -2.112E+00,   5.316E+00,   8.980E+00,,   -0.235
C,MO-99    ,NO ,   -5.469E+00,   4.340E+02,   7.505E+02,,   -0.007
C,RU-103   ,NO ,    8.103E-01,   3.593E+00,   6.141E+00,,    0.132
C,RU-106   ,NO ,   -7.456E+00,   2.512E+01,   4.117E+01,,   -0.181
C,AG-110m  ,NO ,    2.277E+00,   2.535E+00,   4.634E+00,,    0.491
C,SN-113   ,NO ,    9.076E-01,   3.827E+00,   6.575E+00,,    0.138
C,SB-124   ,NO ,    1.527E+00,   6.639E+00,   5.207E+00,,    0.293
C,SB-125   ,NO ,   -4.683E+00,   8.113E+00,   1.344E+01,,   -0.348
C,TE-129M  ,NO ,   -1.280E+01,   4.070E+01,   6.808E+01,,   -0.188
C,I-131    ,NO ,   -1.053E+00,   8.343E+00,   1.413E+01,,   -0.075
C,BA-133   ,NO ,    2.310E+00,   4.688E+00,   6.930E+00,,    0.333
C,CS-134   ,NO ,    6.874E+00,   6.000E+00,   5.468E+00,,    1.257
C,CS-136   ,NO ,   -4.037E+00,   5.007E+00,   8.208E+00,,   -0.492
C,CS-137   ,NO ,   -8.616E-01,   2.915E+00,   4.975E+00,,   -0.173
C,CE-139   ,NO ,    1.954E+00,   3.261E+00,   5.525E+00,,    0.354
C,BA-140   ,NO ,    7.711E+00,   1.909E+01,   3.299E+01,,    0.234
C,LA-140   ,NO ,    3.569E-01,   5.489E+00,   9.918E+00,,    0.036
C,CE-141   ,NO ,    6.496E+00,   7.736E+00,   1.132E+01,,    0.574
C,CE-144   ,NO ,    3.599E+00,   2.883E+01,   4.124E+01,,    0.087
C,EU-152   ,NO ,   -1.962E+00,   1.059E+01,   1.511E+01,,   -0.130
C,EU-154   ,NO ,    1.578E+00,   6.503E+00,   1.099E+01,,    0.144
C,AC-228   ,NO ,   -1.315E+00,   1.130E+01,   1.816E+01,,   -0.072
C,TH-228   ,NO ,    1.300E+01,   5.969E+00,   1.022E+01,,    1.273
C,TH-232   ,NO ,   -1.309E+00,   1.125E+01,   1.808E+01,,   -0.072
C,U-235    ,NO ,    1.593E+01,   2.873E+01,   4.098E+01,,    0.389
C,U-238    ,NO ,    1.376E+02,   3.027E+02,   5.286E+02,,    0.260
C,AM-241   ,NO ,   -1.594E+01,   1.771E+01,   2.858E+01,,   -0.558
```

TELEDYNE
BROWN ENGINEERING
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931
865-690-6819 (Phone)

Work Order #: L29480

Exelon

August 11, 2006

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville CT 06062

Case Narrative - L29480
EX001-3ESPTMI-06

08/11/2006 13:58

Sample Receipt

The following samples were received on August 7, 2006 in good condition, unless otherwise noted.

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-17I-080406-MM-100	L29480-1	
WG-TMI-17D-080406-MM-101	L29480-2	
WG-TMI-9I-080406-MM-102	L29480-3	
RB-TMI-RB-080406-MM-103	L29480-4	

Analytical Method Cross Reference Table

Radiological Parameter	TBE Knoxville Method	Reference Method
Gamma Spectrometry	TBE-2007	EPA 901.1
H-3 (DIST)	TBE-2010	
TOTAL SR	TBE-2018	EPA 905.0

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L29480
EX001-3ESPTMI-06

08/11/2006 13:58

Gamma Spectroscopy

Quality Control

Quality control samples were analyzed as WG4295.

Duplicate Sample

Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-TMI-17I-MM-100	L29480-1	WG4295-1

H-3 (DIST)

Quality Control

Quality control samples were analyzed as WG4296.

Method Blank

All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample

All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample

Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-TMI-17I-MM-100	L29480-1	WG4296-3

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L29480
EX001-3ESPTMI-06

08/11/2006 13:58

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4305.

Method Blank
All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample
All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-TMI-17I-MM-100	L29480-1	WG4305-3

Certification

This is to certify that Teledyne Brown Engineering - Environmental Services, located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

Keith Jeter
Operations Manager

Sample Receipt Summary

TELEDYNE BROWN ENGINEERING
2508 Quality Lane
Knoxville, TN 37931-3133

ACKNOWLEDGEMENT
This is not an invoice

August 10, 2006

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville, CT 06062

The following sample(s) were received at Teledyne Brown Engineering Knoxville laboratory on August 07, 2006. The sample(s) have been scheduled for the analyses listed below and the report is scheduled for completion by August 10, 2006. Please review the following login information and pricing. Contact me if anything is incorrect or you have questions about the status of your sample(s).

Thank you for choosing Teledyne Brown Engineering for your analytical needs.

Sincerely,
Rebecca Charles
Project Manager
(865)934-0379

Project ID: EX001-3ESPTMI-06
P.O. #: 00411203
Release #:
Contract#: 00411203
Kathy Shaw, FAX#:860-747-1900, larry.walton@exeloncorp.com

Client ID/ Station	Laboratory ID Analysis	Vol/Units Price	Start Collect Date/Time	End Collect Date/Time
WG-TMI-17I-080406-MM-100	L29480-1		08/04/06:1015	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
WG-TMI-17D-080406-MM-101	L29480-2		08/04/06:1145	
WG	GELI	135.00		
WG	H-3 (DIST)	54.00		
WG	SR-90 (FAST)	175.00		
WG-TMI-9I-080406-MM-102	L29480-3		08/04/06:1415	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
RB-TMI-RB-080406-MM-103	L29480-4		08/04/06:1500	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		

L29480

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: MARTIN NYLET

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: ALPHA	STANDARD	CHEM LIMITS							REMARKS
	8/4/06	1115	WG-TMI-170-MW-100	AQU	2	X	X	X							
	8/4/06	1145	WG-TMI-170-MW-101		2	X	X	X							
	8/4/06	1415	WG-TMI-95-MW-102		2	X	X	X							
	8/4/06	1500	EB-TMI-CB-MW-103		2	X	X	X							
			080406												

TOTAL NUMBER OF CONTAINERS: HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY ① [signature]	DATE: 8/4/06 TIME: 1530	RECEIVED BY ① [signature]	DATE: 8/4/06 TIME: 1531
RELINQUISHED BY ② [signature]	DATE: 8/4/06 TIME: 1532	RECEIVED BY ②	DATE: TIME:
RELINQUISHED BY ③	DATE: TIME:	RECEIVED BY ③	DATE: TIME:

METHOD OF SHIPMENT: WAY BILL No.

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy
Pink - Shipper Copy
Goldenrod - Sampler Copy

SAMPLE TEAM: [signature]

RECEIVED FOR LABORATORY BY: DATE: TIME:

No CRA 06219

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L29480

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: MARTIN MYLET

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: TRITIUM	STRONTIUM	GAMMA EMITTERS							REMARKS
	8/4/06	1015	WG-TMI-17I-MM-100	AQU	2	X	X	X							
	8/4/06	1145	WG-TMI-17D-MM-101	↓	2	X	X	X							
	8/4/06	1415	WG-TMI-9I-MM-102	↓	2	X	X	X							
	8/4/06	1500	RB-TMI-RB-MM-103	↓	2	X	X	X							

TOTAL NUMBER OF CONTAINERS | HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
① [signature]	DATE: 8/4/06 TIME: 1530	① [signature]	DATE: 8/4/06 TIME: 1531
② [signature]	DATE: 8/4/06 TIME: 1532	②	DATE: TIME:
③	DATE: TIME:	③	DATE: TIME:

METHOD OF SHIPMENT: WAY BILL No.

White	–Fully Executed Copy
Yellow	–Receiving Laboratory Copy
Pink	–Shipper Copy
Goldenrod	–Sampler Copy

SAMPLE TEAM: M. MYLET

RECEIVED FOR LABORATORY BY: B Wilkerson DATE: 8-7-06 TIME: 9:30

No CRA 06219

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Internal Chain of Custody

08/11/06 13:58 Teledyne Brown Engineering

Internal Chain of Custody

****

Sample # L29480-1 Containernum 1

Prod	Analyst
GELI	DW
SR-90 (FAST)	LCB
H-3 (DIST)	DW

Relinquish Date	Relinquish By		Received By	
08/07/2006 00:00			099999	Sample Custodian
08/07/2006 15:34	099999	Sample Custodian	030854	Donna Webb
08/07/2006 15:35	030854	Donna Webb	099999	Sample Custodian
08/09/2006 08:57	099999	Sample Custodian	030854	Donna Webb
08/09/2006 08:57	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29480-1 Containernum 2

Prod	Analyst
GELI	DW
SR-90 (FAST)	LCB
H-3 (DIST)	DW

Relinquish Date	Relinquish By		Received By	
08/07/2006 00:00			099999	Sample Custodian
08/07/2006 15:34	099999	Sample Custodian	030854	Donna Webb
08/07/2006 15:35	030854	Donna Webb	099999	Sample Custodian
08/09/2006 08:57	099999	Sample Custodian	030854	Donna Webb
08/09/2006 08:57	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29480-2 Containernum 1

Prod	Analyst
GELI	DW
SR-90 (FAST)	LCB
H-3 (DIST)	DW

Relinquish Date	Relinquish By		Received By	
08/07/2006 00:00			099999	Sample Custodian
08/07/2006 15:34	099999	Sample Custodian	030854	Donna Webb
08/07/2006 15:35	030854	Donna Webb	099999	Sample Custodian
08/09/2006 08:57	099999	Sample Custodian	030854	Donna Webb
08/09/2006 08:57	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29480-2 Containernum 2

Prod	Analyst
GELI	DW
SR-90 (FAST)	LCB
H-3 (DIST)	DW

Relinquish Date	Relinquish By		Received By	
08/07/2006 00:00			099999	Sample Custodian
08/07/2006 15:34	099999	Sample Custodian	030854	Donna Webb
08/07/2006 15:35	030854	Donna Webb	099999	Sample Custodian

Internal Chain of Custody

****

Sample # L29480-2 Containernum 2

Relinquish Date			Received By	
08/09/2006 08:57	099999	Sample Custodian	030854	Donna Webb
08/09/2006 08:57	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29480-3 Containernum 1

Prod	Analyst
GELI	DW
SR-90 (FAST)	LCB
H-3 (DIST)	DW

Relinquish Date	Relinquish By		Received By	
08/07/2006 00:00			099999	Sample Custodian
08/07/2006 15:34	099999	Sample Custodian	030854	Donna Webb
08/07/2006 15:35	030854	Donna Webb	099999	Sample Custodian
08/09/2006 08:57	099999	Sample Custodian	030854	Donna Webb
08/09/2006 08:57	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29480-3 Containernum 2

Prod	Analyst
GELI	DW
SR-90 (FAST)	LCB
H-3 (DIST)	DW

Relinquish Date	Relinquish By		Received By	
08/07/2006 00:00			099999	Sample Custodian
08/07/2006 15:34	099999	Sample Custodian	030854	Donna Webb
08/07/2006 15:35	030854	Donna Webb	099999	Sample Custodian
08/09/2006 08:57	099999	Sample Custodian	030854	Donna Webb
08/09/2006 08:57	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29480-4 Containernum 1

Prod	Analyst
GELI	DW
SR-90 (FAST)	LCB
H-3 (DIST)	DW

Relinquish Date	Relinquish By		Received By	
08/07/2006 00:00			099999	Sample Custodian
08/07/2006 15:34	099999	Sample Custodian	030854	Donna Webb
08/07/2006 15:35	030854	Donna Webb	099999	Sample Custodian
08/09/2006 08:57	099999	Sample Custodian	030854	Donna Webb
08/09/2006 08:57	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29480-4 Containernum 2

Prod	Analyst
GELI	DW
SR-90 (FAST)	LCB
H-3 (DIST)	DW

08/11/06 13:58

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L29480-4 Containernum 2

Relinquish Date	Relinquish By		Received By	
08/07/2006 00:00			099999	Sample Custodian
08/07/2006 15:34	099999	Sample Custodian	030854	Donna Webb
08/07/2006 15:35	030854	Donna Webb	099999	Sample Custodian
08/09/2006 08:57	099999	Sample Custodian	030854	Donna Webb
08/09/2006 08:57	030854	Donna Webb	099999	Sample Custodian

08/11/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L29480

****

L29480-1 **WG** **WG-TMI-17I-080406-MM-100**

Process step	Prod	Analyst	Date
Login		RCHARLES	08/07/06
Aliquot	GELI	DW	08/07/06
Aliquot	H-3 (DIST)	DW	08/08/06
Aliquot	SR-90 (FAST)	LCB	08/10/06
Count Room	GELI	ILL	08/07/06
Count Room	H-3 (DIST)	KOJ	08/08/06
Count Room	SR-90 (FAST)	KOJ	08/11/06

****

L29480-2 **WG** **WG-TMI-17D-080406-MM-101**

Process step	Prod	Analyst	Date
Login		RCHARLES	08/07/06
Aliquot	GELI	DW	08/07/06
Aliquot	H-3 (DIST)	DW	08/08/06
Aliquot	SR-90 (FAST)	LCB	08/10/06
Count Room	GELI	ILL	08/07/06
Count Room	H-3 (DIST)	KOJ	08/09/06
Count Room	SR-90 (FAST)	KOJ	08/11/06

****

L29480-3 **WG** **WG-TMI-9I-080406-MM-102**

Process step	Prod	Analyst	Date
Login		RCHARLES	08/07/06
Aliquot	GELI	DW	08/07/06
Aliquot	H-3 (DIST)	DW	08/08/06
Aliquot	SR-90 (FAST)	LCB	08/10/06
Count Room	GELI	ILL	08/07/06
Count Room	H-3 (DIST)	KOJ	08/09/06
Count Room	SR-90 (FAST)	KOJ	08/11/06

****

L29480-4 **WG** **RB-TMI-RB-080406-MM-103**

Process step	Prod	Analyst	Date
Login		RCHARLES	08/07/06
Aliquot	GELI	DW	08/07/06
Aliquot	H-3 (DIST)	DW	08/08/06
Aliquot	SR-90 (FAST)	LCB	08/10/06
Count Room	GELI	ILL	08/07/06
Count Room	H-3 (DIST)	KOJ	08/09/06
Count Room	SR-90 (FAST)	KOJ	08/11/06

Analytical Results Summary

Report of Analysis

08/11/06 13:57

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29480

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-17I-080406-MM-100**
Station:
Description:
LIMS Number: L29480-1

Collect Start: 08/04/2006 10:15
Collect Stop:
Receive Date: 08/07/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3 (DIST)	2010	**2.92E+02**	1.24E+02	1.73E+02	pCi/L		10	ml		08/08/06	60	M	+		
TOTAL SR	2018	8.30E-02	8.22E-01	**1.70E+00**	pCi/L		450	ml	08/04/06 10:15	08/11/06	100	M	U		
MN-54	2007	-2.17E-01	2.14E+00	**3.49E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U		No
CO-58	2007	-1.31E+00	2.36E+00	**3.15E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U		No
FE-59	2007	5.33E+00	4.09E+00	**7.19E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U		No
CO-60	2007	-4.46E-01	2.51E+00	**4.15E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U		No
ZN-65	2007	1.60E+01	6.01E+00	**9.83E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U*		No
NB-95	2007	8.21E+00	2.63E+00	**4.34E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U*		No
ZR-95	2007	-1.13E+00	3.70E+00	**5.93E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U		No
CS-134	2007	5.95E+00	2.87E+00	**4.06E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U*		No
CS-137	2007	2.86E+00	2.64E+00	**3.88E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U		No
BA-140	2007	2.68E+00	8.44E+00	**1.41E+01**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U		No
LA-140	2007	2.31E+00	2.89E+00	**4.99E+00**	pCi/L		2929.79	ml	08/04/06 10:15	08/07/06	28800	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

08/11/06 13:57

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29480

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-17D-080406-MM-101**
Station:
Description:
LIMS Number: L29480-2

Collect Start: 08/04/2006 11:45
Collect Stop:
Receive Date: 08/07/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3 (DIST)	2010	1.74E+02	1.19E+02	**1.77E+02**	pCi/L		10	ml		08/09/06	60	M	U			
TOTAL SR	2018	-4.55E-02	6.23E-01	**1.31E+00**	pCi/L		450	ml	08/04/06 11:45	08/11/06	100	M	U			
MN-54	2007	-6.71E-01	1.58E+00	**2.62E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
CO-58	2007	-7.31E-01	1.55E+00	**2.56E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
FE-59	2007	4.72E-01	2.96E+00	**5.21E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
CO-60	2007	-5.45E-01	1.55E+00	**2.63E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
ZN-65	2007	-4.96E-01	3.30E+00	**4.88E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
NB-95	2007	8.20E-01	1.65E+00	**2.86E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
ZR-95	2007	-1.22E+00	2.64E+00	**4.38E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
CS-134	2007	1.24E+00	2.03E+00	**2.60E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
CS-137	2007	-5.39E-01	1.59E+00	**2.68E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
BA-140	2007	3.66E+00	6.37E+00	**1.12E+01**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	
LA-140	2007	-5.46E-02	1.98E+00	**3.42E+00**	pCi/L		3022.07	ml	08/04/06 11:45	08/07/06	28800	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
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L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Report of Analysis

08/11/06 13:57

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29480

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-9I-080406-MM-102**
Station:
Description:
LIMS Number: L29480-3

Collect Start: 08/04/2006 14:15
Collect Stop:
Receive Date: 08/07/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3 (DIST)	2010	**1.98E+02**	1.19E+02	1.75E+02	pCi/L		10	ml		08/09/06	60	M	+			
TOTAL SR	2018	2.27E-01	7.74E-01	**1.56E+00**	pCi/L		450	ml	08/04/06 14:15	08/11/06	100	M	U			
MN-54	2007	1.25E+00	2.55E+00	**4.26E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U		No	
CO-58	2007	2.18E+00	3.01E+00	**4.33E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U		No	
FE-59	2007	2.36E+00	5.26E+00	**8.87E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U		No	
CO-60	2007	-9.08E-01	2.72E+00	**4.37E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U		No	
ZN-65	2007	4.08E+01	8.05E+00	**1.41E+01**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U*		No	
NB-95	2007	1.06E+01	3.19E+00	**5.18E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U*		No	
ZR-95	2007	-4.01E+00	4.60E+00	**7.08E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U		No	
CS-134	2007	5.17E+01	6.58E+00	**7.98E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U*		No	
CS-137	2007	4.23E+00	3.21E+00	**4.79E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U		No	
BA-140	2007	1.19E+01	1.08E+01	**1.82E+01**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U		No	
LA-140	2007	1.95E+00	3.16E+00	**5.43E+00**	pCi/L		3016.55	ml	08/04/06 14:15	08/07/06	28800	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
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H = High recovery

Bolded text indicates reportable value.

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Yes = Peak identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Report of Analysis

08/11/06 13:57

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29480

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **RB-TMI-RB-080406-MM-103**
Station:
Description:
LIMS Number: L29480-4

Collect Start: 08/04/2006 15:00
Collect Stop:
Receive Date: 08/07/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3 (DIST)	2010	1.43E+02	1.15E+02	**1.74E+02**	pCi/L		10	ml		08/09/06	60	M	U			
TOTAL SR	2018	3.31E-01	5.77E-01	**1.14E+00**	pCi/L		450	ml	08/04/06 15:00	08/11/06	100	M	U			
MN-54	2007	-1.19E+00	1.89E+00	**2.96E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
CO-58	2007	1.17E-01	1.84E+00	**3.02E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
FE-59	2007	2.49E+00	3.75E+00	**6.44E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
CO-60	2007	4.47E-01	1.95E+00	**3.23E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
ZN-65	2007	3.23E+00	4.48E+00	**6.71E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
NB-95	2007	2.39E+00	2.03E+00	**3.51E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
ZR-95	2007	-4.68E-01	3.38E+00	**5.49E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
CS-134	2007	4.07E-01	2.42E+00	**3.16E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
CS-137	2007	-8.46E-01	2.04E+00	**3.30E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
BA-140	2007	3.28E+00	7.83E+00	**1.33E+01**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	
LA-140	2007	-1.06E-01	2.79E+00	**4.59E+00**	pCi/L		3013.15	ml	08/04/06 15:00	08/07/06	28800	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

QC Results Summary

QC Summary Report for L29480

8/11/2006 1:59:30PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

H-3 (DIST)

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4296-1	H-3 (DIST)	WO	08/08/2006 20:48	< 1.720E+00	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4296-2	H-3 (DIST)	WO	08/08/2006 21:51	5.05E+002	4.920E+02	pCi/Total	97.5	70-130	+	P

Spike ID: 3H-041706-1
Spike conc: 5.05E+002
Spike Vol: 1.00E+000

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4296-3 L29480-1	H-3 (DIST)	WG	08/08/2006 22:10	2.920E+02	2.260E+02	pCi/L		<30	*	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L29480

8/11/2006 1:59:30PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

TOTAL SR

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4305-1	TOTAL SR	WO	08/11/2006 14:06	< 9.090E-01	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4305-2	TOTAL SR	WO	08/11/2006 14:06	5.84E+001	6.450E+01	pCi/Total	110.5	70-130	+	P

Spike ID: 90SR-011905
Spike conc: 2.34E+002
Spike Vol: 2.50E-001

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4305-3 L29480-1	TOTAL SR	WG	08/11/2006 14:06	< 1.700E+00	< 1.750E+00	pCi/L		<30	**	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

Raw Data

Raw Data Sheet (rawdata)
Aug 11 2006, 02:12 pm

Work Order: *L29480* Customer: *Exelon*

Nuclide: *H-3 (DIST)* Project : *EX001-3ESPTMI-06*

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L29480-1		H-3 DIST		10 ml			0		08-aug-06 23:13	LS7	185	60	1.74	60	.207		DW
WG-TMI-17I-080406-MM-100																	
Activity: 2.92E+02 * Error: 1.24E+02			MDC: 1.73E+02														
L29480-2		H-3 DIST		10 ml			0		09-aug-06 00:17	LS7	151	60	1.74	60	.203		DW
WG-TMI-17D-080406-MM-101																	
Activity: 1.74E+02 Error: 1.19E+02			MDC: 1.77E+02 *														
L29480-3		H-3 DIST		10 ml			0		09-aug-06 01:20	LS7	158	60	1.74	60	.205		DW
WG-TMI-9I-080406-MM-102																	
Activity: 1.98E+02 * Error: 1.19E+02			MDC: 1.75E+02														
L29480-4		H-3 DIST		10 ml			0		09-aug-06 02:24	LS7	143	60	1.74	60	.205		DW
RB-TMI-RB-080406-MM-103																	
Activity: 1.43E+02 Error: 1.15E+02			MDC: 1.74E+02 *														

Raw Data Sheet (rawdata)
Aug 11 2006, 02:12 pm

Work Order: *L29480* Customer: *Exelon*

Nuclide: *SR-90 (FAST)* Project : *EX001-3ESPTMI-06*

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L29480-1		TOTAL SR	04-aug-06 10:15	450 ml	11-aug-06 09:30		0	69.78	11-aug-06 14:06	X1A	79	100	308	400	.346	1	LCB
WG-TMI-17I-080406-MM-100																	
Activity: 8.3E-02	Error: 8.22E-01		MDC: 1.7E+00 *														
L29480-2		TOTAL SR	04-aug-06 11:45	450 ml	11-aug-06 09:30		0	96.15	11-aug-06 14:06	X1B	84	100	342	400	.343	1	LCB
WG-TMI-17D-080406-MM-101																	
Activity: -4.55E-02	Error: 6.23E-01		MDC: 1.31E+00 *														
L29480-3		TOTAL SR	04-aug-06 14:15	450 ml	11-aug-06 09:30		0	71.70	11-aug-06 14:06	X1C	78	100	289	400	.354	1	LCB
WG-TMI-9I-080406-MM-102																	
Activity: 2.27E-01	Error: 7.74E-01		MDC: 1.56E+00 *														
L29480-4		TOTAL SR	04-aug-06 15:00	450 ml	11-aug-06 09:30		0	105.49	11-aug-06 14:06	X1D	90	100	312	400	.344	1	LCB
RB-TMI-RB-080406-MM-103																	
Activity: 3.31E-01	Error: 5.77E-01		MDC: 1.14E+00 *														

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 7-AUG-2006 22:37:53.18
TBE04 P-40312B HpGe ********** Aquisition Date/Time: 7-AUG-2006 13:22:54.01

LIMS No., Customer Name, Client ID: L29480-1 WG TMI

Sample ID : 04L29480-1
Sample Type : WG
Quantity : 2.92980E+00 L
Start Channel : 90 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 4-AUG-2006 10:15:00.0
Geometry : 043L082004
BKGFILE : 04BG072806MT
Real Time : 0 08:00:06.43
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.03*	183	1332	1.56	132.96	6.53E-01	6.37E-03	36.2	3.60E-01
2	3	74.86*	117	987	0.78	150.62	9.79E-01	4.06E-03	45.9	2.10E+00
3	3	77.06*	455	863	0.80	155.02	1.06E+00	1.58E-02	11.8	
4	3	87.07*	238	944	1.13	175.04	1.38E+00	8.26E-03	23.6	6.23E-01
5	1	139.91*	223	1133	1.48	280.74	2.04E+00	7.73E-03	27.7	2.93E+00
6	1	185.83*	41	964	1.34	372.61	1.92E+00	1.42E-03	140.3	2.61E+00
7	1	198.27*	189	971	1.34	397.50	1.87E+00	6.57E-03	31.4	9.92E-01
8	1	238.44*	48	589	1.21	477.86	1.68E+00	1.68E-03	93.5	3.11E+00
9	1	242.03	758	567	1.21	485.03	1.66E+00	2.63E-02	6.3	
10	1	295.23*	1470	779	1.01	591.45	1.45E+00	5.10E-02	4.6	1.12E+00
11	1	351.93*	2391	511	1.07	704.86	1.28E+00	8.30E-02	2.8	4.51E-01
12	1	595.88	115	234	2.01	1192.79	8.63E-01	4.00E-03	27.6	1.42E+00
13	1	609.28*	2030	263	1.37	1219.58	8.48E-01	7.05E-02	2.9	8.56E-01
14	1	665.16	111	165	2.01	1331.35	7.93E-01	3.85E-03	25.0	1.50E+00
15	1	767.94	179	193	2.20	1536.89	7.10E-01	6.20E-03	19.3	3.41E+00
16	1	805.86	63	139	2.37	1612.73	6.84E-01	2.17E-03	38.6	1.64E+00
17	1	911.39*	3	158	2.05	1823.75	6.21E-01	1.10E-04	952.0	1.14E+00
18	1	934.23	91	162	1.63	1869.42	6.09E-01	3.15E-03	30.7	5.00E-01
19	1	1120.36*	386	94	1.97	2241.61	5.27E-01	1.34E-02	7.8	1.05E+00
20	1	1155.25	72	111	2.73	2311.37	5.15E-01	2.50E-03	37.6	1.19E+00
21	1	1238.14*	179	101	2.20	2477.12	4.87E-01	6.20E-03	14.4	3.24E+00
22	1	1333.62	48	72	4.03	2668.01	4.60E-01	1.67E-03	40.2	2.12E+00
23	1	1377.21	121	99	3.41	2755.15	4.49E-01	4.22E-03	21.4	2.50E+00
24	1	1407.94	76	67	2.20	2816.59	4.42E-01	2.65E-03	25.6	6.15E-01
25	1	1460.64*	9	94	2.19	2921.96	4.30E-01	3.24E-04	277.3	1.19E+00
26	1	1509.12	131	48	4.64	3018.88	4.19E-01	4.53E-03	16.1	1.14E+00
27	1	1729.55	72	59	2.77	3459.55	3.82E-01	2.49E-03	25.6	3.15E+00
28	1	1764.09*	372	37	2.42	3528.59	3.77E-01	1.29E-02	7.1	1.01E+00
29	4	1843.74	19	16	1.42	3687.79	3.67E-01	6.54E-04	34.0	2.00E+00
30	4	1847.48	66	37	2.85	3695.27	3.67E-01	2.31E-03	25.3	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error

K-40	1460.81	9	10.67*	4.296E-01	6.517E+00	6.517E+00	554.68
RA-226	186.21	41	3.28*	1.922E+00	2.080E+01	2.080E+01	280.59
AC-228	835.50	------	1.75	6.649E-01	------	Line Not Found	------
	911.07	3	27.70*	6.210E-01	5.903E-01	5.910E-01	1903.97
TH-228	238.63	48	44.60*	1.680E+00	2.073E+00	2.080E+00	186.92
	240.98	------	3.95	1.669E+00	------	Line Not Found	------
U-235	143.76	------	10.50*	2.041E+00	------	Line Not Found	------
	163.35	------	4.70	2.007E+00	------	Line Not Found	------
	185.71	41	54.00	1.922E+00	1.263E+00	1.263E+00	280.59
	205.31	------	4.70	1.833E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 04L29480-1

Acquisition date : 7-AUG-2006 13:22:54

Total number of lines in spectrum	30	
Number of unidentified lines	25	
Number of lines tentatively identified by NID	5	16.67%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	6.517E+00	6.517E+00	36.15E+00	554.68	
RA-226	1600.00Y	1.00	2.080E+01	2.080E+01	5.836E+01	280.59	
AC-228	5.75Y	1.00	5.903E-01	5.910E-01	112.5E-01	1903.97	
TH-228	1.91Y	1.00	2.073E+00	2.080E+00	3.887E+00	186.92	
U-235	7.04E+08Y	1.00	1.263E+00	1.263E+00	3.545E+00	280.59	K
			---	---			
	Total Activity :		3.124E+01	3.125E+01			

Grand Total Activity : 3.124E+01 3.125E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 04L29480-1

Acquisition date : 7-AUG-2006 13:22:54

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.03	183	1332	1.56	132.96	129	8	6.37E-03	72.4	6.53E-01	
3	74.86	117	987	0.78	150.62	147	12	4.06E-03	91.7	9.79E-01	
3	77.06	455	863	0.80	155.02	147	12	1.58E-02	23.6	1.06E+00	
3	87.07	238	944	1.13	175.04	166	13	8.26E-03	47.2	1.38E+00	
1	139.91	223	1133	1.48	280.74	277	8	7.73E-03	55.3	2.04E+00	
1	198.27	189	971	1.34	397.50	393	9	6.57E-03	62.9	1.87E+00	
1	242.03	758	567	1.21	485.03	474	18	2.63E-02	12.6	1.66E+00	
1	295.23	1470	779	1.01	591.45	586	11	5.10E-02	9.2	1.45E+00	
1	351.93	2391	511	1.07	704.86	700	11	8.30E-02	5.6	1.28E+00	
1	595.88	115	234	2.01	1192.79	1187	11	4.00E-03	55.2	8.63E-01	
1	609.28	2030	263	1.37	1219.58	1213	13	7.05E-02	5.8	8.48E-01	
1	665.16	111	165	2.01	1331.35	1328	12	3.85E-03	50.0	7.93E-01	
1	767.94	179	193	2.20	1536.89	1530	16	6.20E-03	38.6	7.10E-01	
1	805.86	63	139	2.37	1612.73	1608	11	2.17E-03	77.1	6.84E-01	
1	934.23	91	162	1.63	1869.42	1866	13	3.15E-03	61.4	6.09E-01	
1	1120.36	386	94	1.97	2241.61	2236	14	1.34E-02	15.6	5.27E-01	
1	1155.25	72	111	2.73	2311.37	2304	19	2.50E-03	75.3	5.15E-01	
1	1238.14	179	101	2.20	2477.12	2471	13	6.20E-03	28.8	4.87E-01	
1	1333.62	48	72	4.03	2668.01	2662	13	1.67E-03	80.3	4.60E-01	
1	1377.21	121	99	3.41	2755.15	2746	18	4.22E-03	42.7	4.49E-01	
1	1407.94	76	67	2.20	2816.59	2813	14	2.65E-03	51.1	4.42E-01	T
1	1509.12	131	48	4.64	3018.88	3010	21	4.53E-03	32.1	4.19E-01	
1	1729.55	72	59	2.77	3459.55	3452	14	2.49E-03	51.2	3.82E-01	
1	1764.09	372	37	2.42	3528.59	3518	21	1.29E-02	14.1	3.77E-01	
4	1843.74	19	16	1.42	3687.79	3686	24	6.54E-04	68.1	3.67E-01	
4	1847.48	66	37	2.85	3695.27	3686	24	2.31E-03	50.6	3.67E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	30	
Number of unidentified lines	25	
Number of lines tentatively identified by NID	5	16.67%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	6.517E+00	6.517E+00	36.15E+00	554.68	
RA-226	1600.00Y	1.00	2.080E+01	2.080E+01	5.836E+01	280.59	
AC-228	5.75Y	1.00	5.903E-01	5.910E-01	112.5E-01	1903.97	
TH-228	1.91Y	1.00	2.073E+00	2.080E+00	3.887E+00	186.92	
		Total Activity :	2.998E+01	2.999E+01			

Grand Total Activity : 2.998E+01 2.999E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	6.517E+00	3.615E+01	3.451E+01	0.000E+00	0.189
RA-226	2.080E+01	5.836E+01	8.496E+01	0.000E+00	0.245
AC-228	5.910E-01	1.125E+01	1.236E+01	0.000E+00	0.048
TH-228	2.080E+00	3.887E+00	6.322E+00	0.000E+00	0.329

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-2.300E+00		1.814E+01	2.997E+01	0.000E+00	-0.077
NA-24	2.879E+01		1.008E+02	1.449E+02	0.000E+00	0.199
CR-51	7.015E+00		1.922E+01	3.194E+01	0.000E+00	0.220
MN-54	-2.173E-01		2.139E+00	3.489E+00	0.000E+00	-0.062
CO-57	-1.668E+00		1.955E+00	3.220E+00	0.000E+00	-0.518
CO-58	-1.305E+00		2.359E+00	3.153E+00	0.000E+00	-0.414
FE-59	5.334E+00		4.085E+00	7.191E+00	0.000E+00	0.742
CO-60	-4.461E-01		2.511E+00	4.147E+00	0.000E+00	-0.108
ZN-65	1.596E+01		6.011E+00	9.829E+00	0.000E+00	1.624
SE-75	-2.941E+00		2.838E+00	4.618E+00	0.000E+00	-0.637
SR-85	1.378E+01		2.572E+00	4.810E+00	0.000E+00	2.865
Y-88	7.479E-01		2.629E+00	3.868E+00	0.000E+00	0.193
NB-94	-1.471E+00		2.009E+00	3.242E+00	0.000E+00	-0.454
NB-95	8.213E+00		2.626E+00	4.342E+00	0.000E+00	1.892
ZR-95	-1.134E+00		3.698E+00	5.928E+00	0.000E+00	-0.191
MO-99	-4.697E-01		3.377E+01	5.590E+01	0.000E+00	-0.008
RU-103	-6.953E-01		2.156E+00	3.527E+00	0.000E+00	-0.197
RU-106	7.820E+00		1.899E+01	3.140E+01	0.000E+00	0.249
AG-110m	3.472E-01		2.181E+00	3.241E+00	0.000E+00	0.107
SN-113	-1.301E+00		2.776E+00	4.432E+00	0.000E+00	-0.294
SB-124	1.248E+00		4.329E+00	3.635E+00	0.000E+00	0.343
SB-125	-1.939E+00		6.045E+00	1.002E+01	0.000E+00	-0.194
TE-129M	-2.063E+01		2.439E+01	3.945E+01	0.000E+00	-0.523
I-131	1.977E+00		2.735E+00	4.560E+00	0.000E+00	0.434
BA-133	3.489E+00		3.281E+00	4.806E+00	0.000E+00	0.726
CS-134	5.948E+00		2.866E+00	4.061E+00	0.000E+00	1.465
CS-136	2.111E+00		2.352E+00	4.026E+00	0.000E+00	0.524
CS-137	2.859E+00		2.639E+00	3.875E+00	0.000E+00	0.738
CE-139	-1.492E+00		2.109E+00	3.418E+00	0.000E+00	-0.436
BA-140	2.676E+00		8.441E+00	1.405E+01	0.000E+00	0.190
LA-140	2.310E+00		2.894E+00	4.990E+00	0.000E+00	0.463
CE-141	5.330E-01		4.025E+00	6.079E+00	0.000E+00	0.088
CE-144	1.251E+01		1.606E+01	2.567E+01	0.000E+00	0.487
EU-152	-3.003E+00		7.511E+00	1.122E+01	0.000E+00	-0.267
EU-154	-3.221E+00		4.089E+00	6.740E+00	0.000E+00	-0.478
TH-232	5.903E-01	+	1.124E+01	1.393E+01	0.000E+00	0.042
U-235	-2.015E-01		1.812E+01	2.606E+01	0.000E+00	-0.008
U-238	1.431E+01		2.387E+02	3.978E+02	0.000E+00	0.036
AM-241	-1.762E+01		2.078E+01	3.354E+01	0.000E+00	-0.525

```
A,04L29480-1       ,08/07/2006 22:37,08/04/2006 10:15,   2.930E+00,L29480-1 WG TM
B,04L29480-1       ,LIBD                ,08/07/2006 09:38,043L082004
C,K-40     ,YES,   6.517E+00,   3.615E+01,   3.451E+01,,    0.189
C,RA-226   ,YES,   2.080E+01,   5.836E+01,   8.496E+01,,    0.245
C,AC-228   ,YES,   5.910E-01,   1.125E+01,   1.236E+01,,    0.048
C,TH-228   ,YES,   2.080E+00,   3.887E+00,   6.322E+00,,    0.329
C,BE-7     ,NO ,  -2.300E+00,   1.814E+01,   2.997E+01,,   -0.077
C,NA-24    ,NO ,   2.879E+01,   1.008E+02,   1.449E+02,,    0.199
C,CR-51    ,NO ,   7.015E+00,   1.922E+01,   3.194E+01,,    0.220
C,MN-54    ,NO ,  -2.173E-01,   2.139E+00,   3.489E+00,,   -0.062
C,CO-57    ,NO ,  -1.668E+00,   1.955E+00,   3.220E+00,,   -0.518
C,CO-58    ,NO ,  -1.305E+00,   2.359E+00,   3.153E+00,,   -0.414
C,FE-59    ,NO ,   5.334E+00,   4.085E+00,   7.191E+00,,    0.742
C,CO-60    ,NO ,  -4.461E-01,   2.511E+00,   4.147E+00,,   -0.108
C,ZN-65    ,NO ,   1.596E+01,   6.011E+00,   9.829E+00,,    1.624
C,SE-75    ,NO ,  -2.941E+00,   2.838E+00,   4.618E+00,,   -0.637
C,SR-85    ,NO ,   1.378E+01,   2.572E+00,   4.810E+00,,    2.865
C,Y-88     ,NO ,   7.479E-01,   2.629E+00,   3.868E+00,,    0.193
C,NB-94    ,NO ,  -1.471E+00,   2.009E+00,   3.242E+00,,   -0.454
C,NB-95    ,NO ,   8.213E+00,   2.626E+00,   4.342E+00,,    1.892
C,ZR-95    ,NO ,  -1.134E+00,   3.698E+00,   5.928E+00,,   -0.191
C,MO-99    ,NO ,  -4.697E-01,   3.377E+01,   5.590E+01,,   -0.008
C,RU-103   ,NO ,  -6.953E-01,   2.156E+00,   3.527E+00,,   -0.197
C,RU-106   ,NO ,   7.820E+00,   1.899E+01,   3.140E+01,,    0.249
C,AG-110m  ,NO ,   3.472E-01,   2.181E+00,   3.241E+00,,    0.107
C,SN-113   ,NO ,  -1.301E+00,   2.776E+00,   4.432E+00,,   -0.294
C,SB-124   ,NO ,   1.248E+00,   4.329E+00,   3.635E+00,,    0.343
C,SB-125   ,NO ,  -1.939E+00,   6.045E+00,   1.002E+01,,   -0.194
C,TE-129M  ,NO ,  -2.063E+01,   2.439E+01,   3.945E+01,,   -0.523
C,I-131    ,NO ,   1.977E+00,   2.735E+00,   4.560E+00,,    0.434
C,BA-133   ,NO ,   3.489E+00,   3.281E+00,   4.806E+00,,    0.726
C,CS-134   ,NO ,   5.948E+00,   2.866E+00,   4.061E+00,,    1.465
C,CS-136   ,NO ,   2.111E+00,   2.352E+00,   4.026E+00,,    0.524
C,CS-137   ,NO ,   2.859E+00,   2.639E+00,   3.875E+00,,    0.738
C,CE-139   ,NO ,  -1.492E+00,   2.109E+00,   3.418E+00,,   -0.436
C,BA-140   ,NO ,   2.676E+00,   8.441E+00,   1.405E+01,,    0.190
C,LA-140   ,NO ,   2.310E+00,   2.894E+00,   4.990E+00,,    0.463
C,CE-141   ,NO ,   5.330E-01,   4.025E+00,   6.079E+00,,    0.088
C,CE-144   ,NO ,   1.251E+01,   1.606E+01,   2.567E+01,,    0.487
C,EU-152   ,NO ,  -3.003E+00,   7.511E+00,   1.122E+01,,   -0.267
C,EU-154   ,NO ,  -3.221E+00,   4.089E+00,   6.740E+00,,   -0.478
C,TH-232   ,NO ,   5.903E-01,   1.124E+01,   1.393E+01,,    0.042
C,U-235    ,NO ,  -2.015E-01,   1.812E+01,   2.606E+01,,   -0.008
C,U-238    ,NO ,   1.431E+01,   2.387E+02,   3.978E+02,,    0.036
C,AM-241   ,NO ,  -1.762E+01,   2.078E+01,   3.354E+01,,   -0.525
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 7-AUG-2006 23:51:51.28
TBE23 03017322 HpGe ********** Aquisition Date/Time: 7-AUG-2006 14:37:06.50

LIMS No., Customer Name, Client ID: L29480-2 WG TMI

Sample ID : 23L29480-2
Sample Type : WG
Quantity : 3.02210E+00 L
Start Channel : 50 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 4-AUG-2006 11:45:00.0
Geometry : 233L082404
BKGFILE : 23BG072806MT
Real Time : 0 08:00:19.46
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	10	34.92*	60	309	1.87	70.17	1.00E-01	2.09E-03	86.0	3.03E+00
2	10	37.05*	145	701	2.40	74.43	1.39E-01	5.05E-03	42.5	
3	0	40.71	22	444	2.18	81.73	2.24E-01	7.69E-04	144.4	
4	0	64.51	548	1839	4.13	129.27	1.09E+00	1.90E-02	17.6	
5	0	77.02*	69	1002	0.88	154.26	1.53E+00	2.41E-03	79.1	
6	0	139.92*	142	1268	0.76	279.90	2.32E+00	4.95E-03	47.1	
7	0	197.95	188	861	0.98	395.84	2.11E+00	6.54E-03	29.0	
8	0	238.43*	81	632	1.56	476.72	1.90E+00	2.83E-03	61.7	
9	0	241.62	165	499	1.63	483.09	1.88E+00	5.73E-03	23.6	
10	0	294.95*	343	592	1.35	589.65	1.64E+00	1.19E-02	15.4	
11	0	351.78*	545	501	1.34	703.24	1.43E+00	1.89E-02	10.0	
12	0	583.17*	44	141	1.36	1165.80	9.71E-01	1.53E-03	58.6	
13	0	595.72	102	248	2.10	1190.89	9.56E-01	3.55E-03	33.1	
14	0	609.31*	447	210	1.68	1218.08	9.40E-01	1.55E-02	9.1	
15	0	911.37*	70	74	1.51	1822.28	7.08E-01	2.43E-03	30.8	
16	0	1120.38*	110	84	1.20	2240.60	6.16E-01	3.80E-03	21.5	
17	0	1377.74	46	50	0.88	2755.93	5.32E-01	1.58E-03	31.6	
18	0	1731.68	22	52	1.27	3465.12	4.45E-01	7.58E-04	77.0	
19	0	1764.05*	82	34	2.14	3530.01	4.38E-01	2.83E-03	22.1	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
AC-228	835.50	------	1.75	7.515E-01	------	Line Not Found	------
	911.07	70	27.70*	7.082E-01	1.110E+01	1.111E+01	61.68
TH-228	238.63	81	44.60*	1.901E+00	2.980E+00	2.990E+00	123.44
	240.98	165	3.95	1.885E+00	6.885E+01	6.908E+01	47.26
TH-232	583.14	44	30.25	9.713E-01	4.660E+00	4.660E+00	117.23
	911.07	70	27.70*	7.082E-01	1.110E+01	1.110E+01	61.68
	969.11	------	16.60	6.793E-01	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 23L29480-2
Acquisition date : 7-AUG-2006 14:37:06

Total number of lines in spectrum	19	
Number of unidentified lines	15	
Number of lines tentatively identified by NID	4	21.05%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AC-228	5.75Y	1.00	1.110E+01	1.111E+01	0.685E+01	61.68	
TH-228	1.91Y	1.00	2.980E+00	2.990E+00	3.690E+00	123.44	
TH-232	1.41E+10Y	1.00	1.110E+01	1.110E+01	0.685E+01	61.68	
			---	---			
Total Activity :			2.518E+01	2.520E+01			
Grand Total Activity :			2.518E+01	2.520E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 23L29480-2

Acquisition date : 7-AUG-2006 14:37:06

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
10	34.92	60	309	1.87	70.17	64	17	2.09E-03	****	1.00E-01	
10	37.05	145	701	2.40	74.43	64	17	5.05E-03	85.0	1.39E-01	
0	40.71	22	444	2.18	81.73	81	5	7.69E-04	****	2.24E-01	
0	64.51	548	1839	4.13	129.27	122	15	1.90E-02	35.2	1.09E+00	
0	77.02	69	1002	0.88	154.26	152	7	2.41E-03	****	1.53E+00	
0	139.92	142	1268	0.76	279.90	276	9	4.95E-03	94.2	2.32E+00	
0	197.95	188	861	0.98	395.84	392	9	6.54E-03	57.9	2.11E+00	
0	294.95	343	592	1.35	589.65	583	11	1.19E-02	30.7	1.64E+00	
0	351.78	545	501	1.34	703.24	697	13	1.89E-02	20.0	1.43E+00	
0	595.72	102	248	2.10	1190.89	1187	13	3.55E-03	66.2	9.56E-01	
0	609.31	447	210	1.68	1218.08	1213	14	1.55E-02	18.2	9.40E-01	
0	1120.38	110	84	1.20	2240.60	2234	12	3.80E-03	43.0	6.16E-01	
0	1377.74	46	50	0.88	2755.93	2751	9	1.58E-03	63.1	5.32E-01	
0	1731.68	22	52	1.27	3465.12	3459	14	7.58E-04	****	4.45E-01	
0	1764.05	82	34	2.14	3530.01	3522	15	2.83E-03	44.1	4.38E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	19	
Number of unidentified lines	15	
Number of lines tentatively identified by NID	4	21.05%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
AC-228	5.75Y	1.00	6.438E+00	6.445E+00	8.768E+00	136.04	
TH-228	1.91Y	1.00	2.980E+00	2.990E+00	3.690E+00	123.44	
TH-232	1.41E+10Y	1.00	4.660E+00	4.660E+00	5.463E+00	117.23	
			---	---			
	Total Activity :		1.408E+01	1.410E+01			

Grand Total Activity : 1.408E+01 1.410E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

Interfering		Interfered	
Nuclide	Line	Nuclide	Line
TH-232	911.07	AC-228	911.07

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA

AC-228	6.445E+00	8.768E+00	9.467E+00	0.000E+00	0.681
TH-228	2.990E+00	3.690E+00	5.018E+00	0.000E+00	0.596
TH-232	4.660E+00	5.463E+00	1.064E+01	0.000E+00	0.438

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	8.265E+00		1.304E+01	2.303E+01	0.000E+00	0.359
NA-24	-2.851E+01		5.805E+01	9.322E+01	0.000E+00	-0.306
K-40	1.582E+01		2.673E+01	5.409E+01	0.000E+00	0.292
CR-51	-1.464E+01		1.466E+01	2.356E+01	0.000E+00	-0.622
MN-54	-6.711E-01		1.582E+00	2.617E+00	0.000E+00	-0.256
CO-57	1.220E+00		1.607E+00	2.767E+00	0.000E+00	0.441
CO-58	-7.308E-01		1.549E+00	2.561E+00	0.000E+00	-0.285
FE-59	4.716E-01		2.956E+00	5.205E+00	0.000E+00	0.091
CO-60	-5.445E-01		1.547E+00	2.627E+00	0.000E+00	-0.207
ZN-65	-4.955E-01		3.298E+00	4.875E+00	0.000E+00	-0.102
SE-75	-2.366E+00		2.199E+00	3.559E+00	0.000E+00	-0.665
SR-85	-4.792E-01		2.008E+00	3.394E+00	0.000E+00	-0.141
Y-88	5.464E-01		1.500E+00	2.785E+00	0.000E+00	0.196
NB-94	-2.978E-04		1.518E+00	2.583E+00	0.000E+00	0.000
NB-95	8.204E-01		1.645E+00	2.857E+00	0.000E+00	0.287
ZR-95	-1.220E+00		2.635E+00	4.377E+00	0.000E+00	-0.279
MO-99	1.360E+01		2.562E+01	4.484E+01	0.000E+00	0.303
RU-103	-2.928E-01		1.631E+00	2.786E+00	0.000E+00	-0.105
RU-106	3.699E+00		1.351E+01	2.348E+01	0.000E+00	0.158
AG-110m	8.679E-01		1.413E+00	2.495E+00	0.000E+00	0.348
SN-113	-6.571E-01		2.126E+00	3.473E+00	0.000E+00	-0.189
SB-124	8.057E-01		2.837E+00	2.702E+00	0.000E+00	0.298
SB-125	-3.388E-01		4.451E+00	7.666E+00	0.000E+00	-0.044
TE-129M	1.080E+01		1.839E+01	3.239E+01	0.000E+00	0.333
I-131	8.667E-01		2.149E+00	3.610E+00	0.000E+00	0.240
BA-133	1.733E+00		2.525E+00	3.730E+00	0.000E+00	0.465
CS-134	1.244E+00		2.033E+00	2.604E+00	0.000E+00	0.478
CS-136	-1.420E+00		1.807E+00	2.931E+00	0.000E+00	-0.484
CS-137	-5.385E-01		1.590E+00	2.676E+00	0.000E+00	-0.201
CE-139	5.867E-01		1.647E+00	2.797E+00	0.000E+00	0.210
BA-140	3.657E+00		6.370E+00	1.121E+01	0.000E+00	0.326
LA-140	-5.458E-02		1.975E+00	3.419E+00	0.000E+00	-0.016
CE-141	1.735E+00		3.417E+00	5.087E+00	0.000E+00	0.341
CE-144	-9.432E+00		1.345E+01	2.120E+01	0.000E+00	-0.445
EU-152	-2.275E+00		5.448E+00	8.022E+00	0.000E+00	-0.284
EU-154	6.675E-01		3.373E+00	5.750E+00	0.000E+00	0.116
RA-226	-4.326E+01		4.680E+01	7.456E+01	0.000E+00	-0.580
U-235	-3.350E+00		1.559E+01	2.211E+01	0.000E+00	-0.152
U-238	-4.597E+01		1.776E+02	2.967E+02	0.000E+00	-0.155
AM-241	7.922E+00		1.035E+01	1.514E+01	0.000E+00	0.523

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A,23L29480-2       ,08/07/2006 23:51,08/04/2006 11:45,   3.022E+00,L29480-2 WG TM
B,23L29480-2       ,LIBD                ,08/07/2006 09:53,233L082404
C,AC-228   ,YES,   6.445E+00,   8.768E+00,   9.467E+00,,    0.681
C,TH-228   ,YES,   2.990E+00,   3.690E+00,   5.018E+00,,    0.596
C,TH-232   ,YES,   4.660E+00,   5.463E+00,   1.064E+01,,    0.438
C,BE-7     ,NO ,   8.265E+00,   1.304E+01,   2.303E+01,,    0.359
C,NA-24    ,NO ,  -2.851E+01,   5.805E+01,   9.322E+01,,   -0.306
C,K-40     ,NO ,   1.582E+01,   2.673E+01,   5.409E+01,,    0.292
C,CR-51    ,NO ,  -1.464E+01,   1.466E+01,   2.356E+01,,   -0.622
C,MN-54    ,NO ,  -6.711E-01,   1.582E+00,   2.617E+00,,   -0.256
C,CO-57    ,NO ,   1.220E+00,   1.607E+00,   2.767E+00,,    0.441
C,CO-58    ,NO ,  -7.308E-01,   1.549E+00,   2.561E+00,,   -0.285
C,FE-59    ,NO ,   4.716E-01,   2.956E+00,   5.205E+00,,    0.091
C,CO-60    ,NO ,  -5.445E-01,   1.547E+00,   2.627E+00,,   -0.207
C,ZN-65    ,NO ,  -4.955E-01,   3.298E+00,   4.875E+00,,   -0.102
C,SE-75    ,NO ,  -2.366E+00,   2.199E+00,   3.559E+00,,   -0.665
C,SR-85    ,NO ,  -4.792E-01,   2.008E+00,   3.394E+00,,   -0.141
C,Y-88     ,NO ,   5.464E-01,   1.500E+00,   2.785E+00,,    0.196
C,NB-94    ,NO ,  -2.978E-04,   1.518E+00,   2.583E+00,,    0.000
C,NB-95    ,NO ,   8.204E-01,   1.645E+00,   2.857E+00,,    0.287
C,ZR-95    ,NO ,  -1.220E+00,   2.635E+00,   4.377E+00,,   -0.279
C,MO-99    ,NO ,   1.360E+01,   2.562E+01,   4.484E+01,,    0.303
C,RU-103   ,NO ,  -2.928E-01,   1.631E+00,   2.786E+00,,   -0.105
C,RU-106   ,NO ,   3.699E+00,   1.351E+01,   2.348E+01,,    0.158
C,AG-110m  ,NO ,   8.679E-01,   1.413E+00,   2.495E+00,,    0.348
C,SN-113   ,NO ,  -6.571E-01,   2.126E+00,   3.473E+00,,   -0.189
C,SB-124   ,NO ,   8.057E-01,   2.837E+00,   2.702E+00,,    0.298
C,SB-125   ,NO ,  -3.388E-01,   4.451E+00,   7.666E+00,,   -0.044
C,TE-129M  ,NO ,   1.080E+01,   1.839E+01,   3.239E+01,,    0.333
C,I-131    ,NO ,   8.667E-01,   2.149E+00,   3.610E+00,,    0.240
C,BA-133   ,NO ,   1.733E+00,   2.525E+00,   3.730E+00,,    0.465
C,CS-134   ,NO ,   1.244E+00,   2.033E+00,   2.604E+00,,    0.478
C,CS-136   ,NO ,  -1.420E+00,   1.807E+00,   2.931E+00,,   -0.484
C,CS-137   ,NO ,  -5.385E-01,   1.590E+00,   2.676E+00,,   -0.201
C,CE-139   ,NO ,   5.867E-01,   1.647E+00,   2.797E+00,,    0.210
C,BA-140   ,NO ,   3.657E+00,   6.370E+00,   1.121E+01,,    0.326
C,LA-140   ,NO ,  -5.458E-02,   1.975E+00,   3.419E+00,,   -0.016
C,CE-141   ,NO ,   1.735E+00,   3.417E+00,   5.087E+00,,    0.341
C,CE-144   ,NO ,  -9.432E+00,   1.345E+01,   2.120E+01,,   -0.445
C,EU-152   ,NO ,  -2.275E+00,   5.448E+00,   8.022E+00,,   -0.284
C,EU-154   ,NO ,   6.675E-01,   3.373E+00,   5.750E+00,,    0.116
C,RA-226   ,NO ,  -4.326E+01,   4.680E+01,   7.456E+01,,   -0.580
C,U-235    ,NO ,  -3.350E+00,   1.559E+01,   2.211E+01,,   -0.152
C,U-238    ,NO ,  -4.597E+01,   1.776E+02,   2.967E+02,,   -0.155
C,AM-241   ,NO ,   7.922E+00,   1.035E+01,   1.514E+01,,    0.523
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Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 7-AUG-2006 22:42:56.12
TBE10 12892256 HpGe ********** Aquisition Date/Time: 7-AUG-2006 14:42:42.18

LIMS No., Customer Name, Client ID: L29480-3 WG TMI

Sample ID : 10L29480-3
Sample Type : WG
Quantity : 3.01660E+00 L
Start Channel : 80 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 4-AUG-2006 14:15:00.0
Geometry : 103L083004
BKGFILE : 10BG072806MT
Real Time : 0 08:00:06.19
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.32	262	1942	1.45	131.83	7.27E-01	9.09E-03	32.0	1.15E+00
2	2	74.90*	286	1584	1.52	149.00	1.03E+00	9.94E-03	27.4	3.45E+00
3	2	77.23	589	1214	1.12	153.67	1.10E+00	2.04E-02	11.0	
4	1	87.64*	610	2157	4.03	174.53	1.40E+00	2.12E-02	16.1	1.00E+01
5	1	92.97*	50	1234	1.30	185.18	1.52E+00	1.74E-03	132.0	8.05E-01
6	1	139.77	255	1360	1.35	278.88	1.91E+00	8.86E-03	26.7	7.06E-01
7	1	198.52*	84	1003	1.03	396.49	1.71E+00	2.92E-03	70.9	2.73E+00
8	3	238.81*	56	675	1.14	477.16	1.54E+00	1.96E-03	82.3	2.17E+00
9	3	242.09	632	744	1.28	483.71	1.52E+00	2.20E-02	8.5	
10	1	295.30*	1304	742	1.22	590.25	1.33E+00	4.53E-02	5.0	6.22E-01
11	1	352.01*	2366	565	1.30	703.79	1.17E+00	8.21E-02	3.0	7.40E-01
12	1	596.27	91	275	1.81	1192.86	7.85E-01	3.15E-03	37.1	6.31E-01
13	1	609.29*	1889	277	1.48	1218.93	7.72E-01	6.56E-02	3.1	1.28E+00
14	1	665.25	103	138	2.39	1331.00	7.22E-01	3.58E-03	24.2	7.24E-01
15	1	768.43	168	179	1.84	1537.59	6.46E-01	5.84E-03	18.1	9.08E-01
16	1	805.98	65	147	3.17	1612.80	6.22E-01	2.25E-03	38.5	2.62E+00
17	1	933.96	110	103	1.85	1869.10	5.54E-01	3.81E-03	19.7	1.11E+00
18	1	1120.08*	418	118	2.13	2241.85	4.79E-01	1.45E-02	8.3	1.93E+00
19	1	1238.15*	151	103	2.25	2478.34	4.42E-01	5.24E-03	17.2	1.97E+00
20	1	1377.56	112	67	2.57	2757.59	4.07E-01	3.91E-03	19.9	1.87E+00
21	1	1408.10	62	74	2.38	2818.77	4.00E-01	2.15E-03	32.3	1.24E+00
22	1	1460.67*	10	87	1.92	2924.08	3.89E-01	3.47E-04	273.0	1.02E+00
23	1	1508.16	77	85	2.26	3019.22	3.79E-01	2.69E-03	27.0	2.97E+00
24	1	1730.01	90	56	3.40	3463.66	3.44E-01	3.13E-03	21.7	3.47E+00
25	1	1764.24*	283	88	2.15	3532.24	3.39E-01	9.81E-03	10.3	8.58E-01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	10	10.67*	3.886E-01	7.498E+00	7.498E+00	546.07
TH-228	238.63	56	44.60*	1.537E+00	2.556E+00	2.564E+00	164.56
	240.98	------	3.95	1.529E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L29480-3

Acquisition date : 7-AUG-2006 14:42:42

Total number of lines in spectrum	25	
Number of unidentified lines	22	
Number of lines tentatively identified by NID	3	12.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	7.498E+00	7.498E+00	40.94E+00	546.07	
TH-228	1.91Y	1.00	2.556E+00	2.564E+00	4.219E+00	164.56	
			---	---			
	Total Activity :		1.005E+01	1.006E+01			
	Grand Total Activity :		1.005E+01	1.006E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 10L29480-3

Acquisition date : 7-AUG-2006 14:42:42

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.32	262	1942	1.45	131.83	128	10	9.09E-03	64.1	7.27E-01	
2	74.90	286	1584	1.52	149.00	141	18	9.94E-03	54.8	1.03E+00	
2	77.23	589	1214	1.12	153.67	141	18	2.04E-02	22.0	1.10E+00	
1	87.64	610	2157	4.03	174.53	166	13	2.12E-02	32.3	1.40E+00	
1	92.97	50	1234	1.30	185.18	182	8	1.74E-03	****	1.52E+00	
1	139.77	255	1360	1.35	278.88	275	9	8.86E-03	53.4	1.91E+00	
1	198.52	84	1003	1.03	396.49	393	8	2.92E-03	****	1.71E+00	
3	242.09	632	744	1.28	483.71	474	15	2.20E-02	16.9	1.52E+00	
1	295.30	1304	742	1.22	590.25	585	11	4.53E-02	10.0	1.33E+00	
1	352.01	2366	565	1.30	703.79	698	12	8.21E-02	5.9	1.17E+00	
1	596.27	91	275	1.81	1192.86	1188	11	3.15E-03	74.1	7.85E-01	
1	609.29	1889	277	1.48	1218.93	1213	14	6.56E-02	6.2	7.72E-01	
1	665.25	103	138	2.39	1331.00	1326	11	3.58E-03	48.4	7.22E-01	
1	768.43	168	179	1.84	1537.59	1533	12	5.84E-03	36.2	6.46E-01	
1	805.98	65	147	3.17	1612.80	1607	11	2.25E-03	77.0	6.22E-01	
1	933.96	110	103	1.85	1869.10	1864	10	3.81E-03	39.5	5.54E-01	
1	1120.08	418	118	2.13	2241.85	2232	19	1.45E-02	16.6	4.79E-01	
1	1238.15	151	103	2.25	2478.34	2474	14	5.24E-03	34.4	4.42E-01	
1	1377.56	112	67	2.57	2757.59	2750	17	3.91E-03	39.7	4.07E-01	
1	1408.10	62	74	2.38	2818.77	2811	14	2.15E-03	64.6	4.00E-01	T
1	1508.16	77	85	2.26	3019.22	3016	14	2.69E-03	54.1	3.79E-01	
1	1730.01	90	56	3.40	3463.66	3457	16	3.13E-03	43.4	3.44E-01	
1	1764.24	283	88	2.15	3532.24	3524	19	9.81E-03	20.6	3.39E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	25	
Number of unidentified lines	22	
Number of lines tentatively identified by NID	3	12.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	7.498E+00	7.498E+00	40.94E+00	546.07	
TH-228	1.91Y	1.00	2.556E+00	2.564E+00	4.219E+00	164.56	
			---	---			
	Total Activity :		1.005E+01	1.006E+01			

Grand Total Activity : 1.005E+01 1.006E+01

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	7.498E+00	4.094E+01	3.866E+01	0.000E+00	0.194
TH-228	2.564E+00	4.219E+00	8.602E+00	0.000E+00	0.298

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	3.452E+00		2.258E+01	3.699E+01	0.000E+00	0.093
NA-24	3.700E+01		9.922E+01	1.408E+02	0.000E+00	0.263
CR-51	-1.745E+01		2.435E+01	3.965E+01	0.000E+00	-0.440
MN-54	1.248E+00		2.551E+00	4.255E+00	0.000E+00	0.293
CO-57	2.006E+00		2.800E+00	4.667E+00	0.000E+00	0.430
CO-58	2.179E+00		3.007E+00	4.331E+00	0.000E+00	0.503
FE-59	2.356E+00		5.264E+00	8.869E+00	0.000E+00	0.266
CO-60	-9.081E-01		2.720E+00	4.365E+00	0.000E+00	-0.208
ZN-65	4.082E+01		8.053E+00	1.408E+01	0.000E+00	2.899
SE-75	-1.102E+00		3.838E+00	6.356E+00	0.000E+00	-0.173
SR-85	1.771E+01		2.947E+00	5.494E+00	0.000E+00	3.223
Y-88	-3.076E+00		2.872E+00	4.360E+00	0.000E+00	-0.705
NB-94	8.109E-01		2.528E+00	4.212E+00	0.000E+00	0.193
NB-95	1.060E+01		3.191E+00	5.181E+00	0.000E+00	2.046
ZR-95	-4.009E+00		4.603E+00	7.077E+00	0.000E+00	-0.566
MO-99	-1.471E+01		4.103E+01	6.650E+01	0.000E+00	-0.221
RU-103	1.514E+00		2.835E+00	4.690E+00	0.000E+00	0.323
RU-106	1.193E+01		2.276E+01	3.695E+01	0.000E+00	0.323
AG-110m	8.743E-01		2.829E+00	4.014E+00	0.000E+00	0.218
SN-113	5.940E-01		3.542E+00	5.846E+00	0.000E+00	0.102
SB-124	4.984E-01		6.074E+00	4.376E+00	0.000E+00	0.114
SB-125	6.004E+00		7.742E+00	1.295E+01	0.000E+00	0.464
TE-129M	-1.846E+00		3.175E+01	5.177E+01	0.000E+00	-0.036
I-131	1.471E+00		3.549E+00	5.906E+00	0.000E+00	0.249
BA-133	8.416E+01		5.792E+00	1.083E+01	0.000E+00	7.767
CS-134	5.167E+01		6.582E+00	7.977E+00	0.000E+00	6.477
CS-136	1.265E+00		2.892E+00	4.820E+00	0.000E+00	0.262
CS-137	4.234E+00		3.206E+00	4.788E+00	0.000E+00	0.884
CE-139	6.348E-01		2.894E+00	4.757E+00	0.000E+00	0.133
BA-140	1.189E+01		1.081E+01	1.820E+01	0.000E+00	0.653
LA-140	1.946E+00		3.157E+00	5.433E+00	0.000E+00	0.358
CE-141	6.478E+00		6.043E+00	8.620E+00	0.000E+00	0.752
CE-144	-4.233E+00		2.533E+01	3.530E+01	0.000E+00	-0.120
EU-152	-2.618E+00		1.014E+01	1.403E+01	0.000E+00	-0.187
EU-154	1.916E+00		5.865E+00	9.723E+00	0.000E+00	0.197
RA-226	3.743E+01		7.363E+01	1.192E+02	0.000E+00	0.314
AC-228	3.748E+00		9.770E+00	1.607E+01	0.000E+00	0.233
TH-232	3.744E+00		9.760E+00	1.606E+01	0.000E+00	0.233
U-235	3.042E+01		2.645E+01	3.779E+01	0.000E+00	0.805
U-238	9.382E+01		2.734E+02	4.608E+02	0.000E+00	0.204
AM-241	1.477E+01		2.977E+01	4.140E+01	0.000E+00	0.357

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A,10L29480-3       ,08/07/2006 22:42,08/04/2006 14:15,   3.017E+00,L29480-3 WG TM
B,10L29480-3       ,LIBD                ,08/07/2006 09:39,103L083004
C,K-40     ,YES,   7.498E+00,   4.094E+01,   3.866E+01,,    0.194
C,TH-228   ,YES,   2.564E+00,   4.219E+00,   8.602E+00,,    0.298
C,BE-7     ,NO ,   3.452E+00,   2.258E+01,   3.699E+01,,    0.093
C,NA-24    ,NO ,   3.700E+01,   9.922E+01,   1.408E+02,,    0.263
C,CR-51    ,NO ,  -1.745E+01,   2.435E+01,   3.965E+01,,   -0.440
C,MN-54    ,NO ,   1.248E+00,   2.551E+00,   4.255E+00,,    0.293
C,CO-57    ,NO ,   2.006E+00,   2.800E+00,   4.667E+00,,    0.430
C,CO-58    ,NO ,   2.179E+00,   3.007E+00,   4.331E+00,,    0.503
C,FE-59    ,NO ,   2.356E+00,   5.264E+00,   8.869E+00,,    0.266
C,CO-60    ,NO ,  -9.081E-01,   2.720E+00,   4.365E+00,,   -0.208
C,ZN-65    ,NO ,   4.082E+01,   8.053E+00,   1.408E+01,,    2.899
C,SE-75    ,NO ,  -1.102E+00,   3.838E+00,   6.356E+00,,   -0.173
C,SR-85    ,NO ,   1.771E+01,   2.947E+00,   5.494E+00,,    3.223
C,Y-88     ,NO ,  -3.076E+00,   2.872E+00,   4.360E+00,,   -0.705
C,NB-94    ,NO ,   8.109E-01,   2.528E+00,   4.212E+00,,    0.193
C,NB-95    ,NO ,   1.060E+01,   3.191E+00,   5.181E+00,,    2.046
C,ZR-95    ,NO ,  -4.009E+00,   4.603E+00,   7.077E+00,,   -0.566
C,MO-99    ,NO ,  -1.471E+01,   4.103E+01,   6.650E+01,,   -0.221
C,RU-103   ,NO ,   1.514E+00,   2.835E+00,   4.690E+00,,    0.323
C,RU-106   ,NO ,   1.193E+01,   2.276E+01,   3.695E+01,,    0.323
C,AG-110m  ,NO ,   8.743E-01,   2.829E+00,   4.014E+00,,    0.218
C,SN-113   ,NO ,   5.940E-01,   3.542E+00,   5.846E+00,,    0.102
C,SB-124   ,NO ,   4.984E-01,   6.074E+00,   4.376E+00,,    0.114
C,SB-125   ,NO ,   6.004E+00,   7.742E+00,   1.295E+01,,    0.464
C,TE-129M  ,NO ,  -1.846E+00,   3.175E+01,   5.177E+01,,   -0.036
C,I-131    ,NO ,   1.471E+00,   3.549E+00,   5.906E+00,,    0.249
C,BA-133   ,NO ,   8.416E+01,   5.792E+00,   1.083E+01,,    7.767
C,CS-134   ,NO ,   5.167E+01,   6.582E+00,   7.977E+00,,    6.477
C,CS-136   ,NO ,   1.265E+00,   2.892E+00,   4.820E+00,,    0.262
C,CS-137   ,NO ,   4.234E+00,   3.206E+00,   4.788E+00,,    0.884
C,CE-139   ,NO ,   6.348E-01,   2.894E+00,   4.757E+00,,    0.133
C,BA-140   ,NO ,   1.189E+01,   1.081E+01,   1.820E+01,,    0.653
C,LA-140   ,NO ,   1.946E+00,   3.157E+00,   5.433E+00,,    0.358
C,CE-141   ,NO ,   6.478E+00,   6.043E+00,   8.620E+00,,    0.752
C,CE-144   ,NO ,  -4.233E+00,   2.533E+01,   3.530E+01,,   -0.120
C,EU-152   ,NO ,  -2.618E+00,   1.014E+01,   1.403E+01,,   -0.187
C,EU-154   ,NO ,   1.916E+00,   5.865E+00,   9.723E+00,,    0.197
C,RA-226   ,NO ,   3.743E+01,   7.363E+01,   1.192E+02,,    0.314
C,AC-228   ,NO ,   3.748E+00,   9.770E+00,   1.607E+01,,    0.233
C,TH-232   ,NO ,   3.744E+00,   9.760E+00,   1.606E+01,,    0.233
C,U-235    ,NO ,   3.042E+01,   2.645E+01,   3.779E+01,,    0.805
C,U-238    ,NO ,   9.382E+01,   2.734E+02,   4.608E+02,,    0.204
C,AM-241   ,NO ,   1.477E+01,   2.977E+01,   4.140E+01,,    0.357
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 7-AUG-2006 23:56:18.89
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 7-AUG-2006 14:42:43.81

LIMS No., Customer Name, Client ID: L29480-4 WG TMI

Sample ID : 11L29480-4
Sample Type : WG
Quantity : 3.01310E+00 L
Start Channel : 40 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 4-AUG-2006 15:00:00.0
Geometry : 113L082304
BKGFILE : 11BG072806MT
Real Time : 0 08:00:11.44
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	84.41*	43	1179	1.24	168.52	1.26E+00	1.49E-03	150.9	
2	0	139.53*	183	932	1.19	279.09	1.90E+00	6.37E-03	31.7	
3	0	198.20*	158	862	1.43	396.76	1.75E+00	5.49E-03	38.1	
4	4	238.57*	58	613	1.60	477.70	1.58E+00	2.02E-03	87.3	1.27E+00
5	4	241.83	234	512	1.45	484.24	1.56E+00	8.11E-03	19.0	
6	0	294.96*	307	609	1.12	590.76	1.37E+00	1.07E-02	17.7	
7	0	351.63*	603	462	1.37	704.34	1.20E+00	2.09E-02	8.9	
8	0	595.73	133	178	1.51	1193.38	8.04E-01	4.61E-03	21.4	
9	0	609.07*	535	189	1.60	1220.08	7.90E-01	1.86E-02	7.2	
10	0	911.29*	24	93	2.25	1824.93	5.74E-01	8.21E-04	98.4	
11	0	934.21	64	99	2.74	1870.78	5.63E-01	2.24E-03	33.3	
12	0	1120.44*	118	98	1.77	2243.15	4.86E-01	4.09E-03	21.4	
13	0	1237.98*	62	71	2.43	2478.04	4.48E-01	2.14E-03	33.0	
14	0	1408.96	18	54	0.50	2819.55	4.03E-01	6.13E-04	81.9	
15	0	1460.56*	3	95	1.70	2922.59	3.92E-01	1.11E-04	812.6	
16	0	1761.86	104	58	2.36	3523.79	3.39E-01	3.62E-03	18.5	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	3	10.67*	3.919E-01	2.378E+00	2.378E+00	1625.25
AC-228	835.50	------	1.75	6.158E-01	------	Line Not Found	------
	911.07	24	27.70*	5.744E-01	4.631E+00	4.636E+00	196.76
TH-228	238.63	58	44.60*	1.577E+00	2.573E+00	2.581E+00	174.61
	240.98	234	3.95	1.564E+00	1.178E+02	1.182E+02	37.96

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 11L29480-4

Acquisition date : 7-AUG-2006 14:42:43

Total number of lines in spectrum	16	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	4	25.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.378E+00	2.378E+00	38.65E+00	1625.25	
AC-228	5.75Y	1.00	4.631E+00	4.636E+00	9.121E+00	196.76	
TH-228	1.91Y	1.00	2.573E+00	2.581E+00	4.507E+00	174.61	
			---	---			
	Total Activity :		9.582E+00	9.595E+00			

Grand Total Activity : 9.582E+00 9.595E+00

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Unidentified Energy Lines
Page : 3
Sample ID : 11L29480-4
Acquisition date : 7-AUG-2006 14:42:43

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	84.41	43	1179	1.24	168.52	165	8	1.49E-03	****	1.26E+00	
0	139.53	183	932	1.19	279.09	275	9	6.37E-03	63.4	1.90E+00	
0	198.20	158	862	1.43	396.76	392	11	5.49E-03	76.1	1.75E+00	
0	294.96	307	609	1.12	590.76	584	12	1.07E-02	35.4	1.37E+00	
0	351.63	603	462	1.37	704.34	697	13	2.09E-02	17.8	1.20E+00	
0	595.73	133	178	1.51	1193.38	1189	11	4.61E-03	42.7	8.04E-01	
0	609.07	535	189	1.60	1220.08	1215	12	1.86E-02	14.5	7.90E-01	
0	934.21	64	99	2.74	1870.78	1864	12	2.24E-03	66.6	5.63E-01	
0	1120.44	118	98	1.77	2243.15	2236	14	4.09E-03	42.9	4.86E-01	
0	1237.98	62	71	2.43	2478.04	2472	14	2.14E-03	65.9	4.48E-01	
0	1408.96	18	54	0.50	2819.55	2813	10	6.13E-04	****	4.03E-01	
0	1761.86	104	58	2.36	3523.79	3517	15	3.62E-03	37.0	3.39E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	16	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	4	25.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	2.378E+00	2.378E+00	38.65E+00	1625.25	
AC-228	5.75Y	1.00	4.631E+00	4.636E+00	9.121E+00	196.76	
TH-228	1.91Y	1.00	2.573E+00	2.581E+00	4.507E+00	174.61	
		Total Activity :	9.582E+00	9.595E+00			

Grand Total Activity : 9.582E+00 9.595E+00

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	2.378E+00	3.865E+01	3.077E+01	0.000E+00	0.077
AC-228	4.636E+00	9.121E+00	1.093E+01	0.000E+00	0.424
TH-228	2.581E+00	4.507E+00	5.512E+00	0.000E+00	0.468

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	3.722E+00		1.602E+01	2.623E+01	0.000E+00	0.142
NA-24	-8.979E+01		6.867E+01	9.988E+01	0.000E+00	-0.899
CR-51	-3.588E+00		1.710E+01	2.817E+01	0.000E+00	-0.127
MN-54	-1.193E+00		1.890E+00	2.964E+00	0.000E+00	-0.402
CO-57	3.672E-01		1.796E+00	2.987E+00	0.000E+00	0.123
CO-58	1.168E-01		1.844E+00	3.017E+00	0.000E+00	0.039
FE-59	2.488E+00		3.750E+00	6.437E+00	0.000E+00	0.387
CO-60	4.469E-01		1.949E+00	3.228E+00	0.000E+00	0.138
ZN-65	3.233E+00		4.480E+00	6.709E+00	0.000E+00	0.482
SE-75	1.461E+00		2.486E+00	4.227E+00	0.000E+00	0.346
SR-85	4.822E+00		2.375E+00	4.080E+00	0.000E+00	1.182
Y-88	-1.903E+00		2.363E+00	3.594E+00	0.000E+00	-0.530
NB-94	-6.092E-03		1.859E+00	3.060E+00	0.000E+00	-0.002
NB-95	2.393E+00		2.031E+00	3.511E+00	0.000E+00	0.681
ZR-95	-4.684E-01		3.378E+00	5.492E+00	0.000E+00	-0.085
MO-99	2.269E+01		3.058E+01	5.208E+01	0.000E+00	0.436
RU-103	-8.402E-01		2.020E+00	3.209E+00	0.000E+00	-0.262
RU-106	4.099E+00		1.718E+01	2.881E+01	0.000E+00	0.142
AG-110m	3.936E-01		1.811E+00	3.025E+00	0.000E+00	0.130
SN-113	-1.791E+00		2.522E+00	4.033E+00	0.000E+00	-0.444
SB-124	2.406E+00		3.425E+00	3.180E+00	0.000E+00	0.757
SB-125	5.174E-01		5.510E+00	9.025E+00	0.000E+00	0.057
TE-129M	-4.860E+00		2.346E+01	3.783E+01	0.000E+00	-0.128
I-131	-9.488E-01		2.471E+00	4.016E+00	0.000E+00	-0.236
BA-133	2.492E+00		2.997E+00	4.417E+00	0.000E+00	0.564
CS-134	4.071E-01		2.416E+00	3.162E+00	0.000E+00	0.129
CS-136	-5.866E-01		2.098E+00	3.363E+00	0.000E+00	-0.174
CS-137	-8.461E-01		2.038E+00	3.301E+00	0.000E+00	-0.256
CE-139	-3.435E-01		1.817E+00	2.957E+00	0.000E+00	-0.116
BA-140	3.283E+00		7.825E+00	1.331E+01	0.000E+00	0.247
LA-140	-1.059E-01		2.785E+00	4.592E+00	0.000E+00	-0.023
CE-141	-1.473E-01		3.617E+00	5.391E+00	0.000E+00	-0.027
CE-144	-9.736E+00		1.555E+01	2.288E+01	0.000E+00	-0.426
EU-152	-9.091E-01		6.942E+00	9.797E+00	0.000E+00	-0.093
EU-154	5.198E-01		3.796E+00	6.300E+00	0.000E+00	0.083
RA-226	-2.140E+01		5.076E+01	7.827E+01	0.000E+00	-0.273
TH-232	4.631E+00	+	9.112E+00	1.346E+01	0.000E+00	0.344
U-235	-7.418E+00		1.637E+01	2.298E+01	0.000E+00	-0.323
U-238	1.683E+02		2.127E+02	3.690E+02	0.000E+00	0.456
AM-241	-1.930E+01		2.170E+01	3.421E+01	0.000E+00	-0.564

```
A,11L29480-4       ,08/07/2006 23:56,08/04/2006 15:00,   3.013E+00,L29480-4 WG TM
B,11L29480-4       ,LIBD                ,08/07/2006 09:39,113L082304
C,K-40     ,YES,   2.378E+00,   3.865E+01,   3.077E+01,,    0.077
C,AC-228   ,YES,   4.636E+00,   9.121E+00,   1.093E+01,,    0.424
C,TH-228   ,YES,   2.581E+00,   4.507E+00,   5.512E+00,,    0.468
C,BE-7     ,NO ,   3.722E+00,   1.602E+01,   2.623E+01,,    0.142
C,NA-24    ,NO ,  -8.979E+01,   6.867E+01,   9.988E+01,,   -0.899
C,CR-51    ,NO ,  -3.588E+00,   1.710E+01,   2.817E+01,,   -0.127
C,MN-54    ,NO ,  -1.193E+00,   1.890E+00,   2.964E+00,,   -0.402
C,CO-57    ,NO ,   3.672E-01,   1.796E+00,   2.987E+00,,    0.123
C,CO-58    ,NO ,   1.168E-01,   1.844E+00,   3.017E+00,,    0.039
C,FE-59    ,NO ,   2.488E+00,   3.750E+00,   6.437E+00,,    0.387
C,CO-60    ,NO ,   4.469E-01,   1.949E+00,   3.228E+00,,    0.138
C,ZN-65    ,NO ,   3.233E+00,   4.480E+00,   6.709E+00,,    0.482
C,SE-75    ,NO ,   1.461E+00,   2.486E+00,   4.227E+00,,    0.346
C,SR-85    ,NO ,   4.822E+00,   2.375E+00,   4.080E+00,,    1.182
C,Y-88     ,NO ,  -1.903E+00,   2.363E+00,   3.594E+00,,   -0.530
C,NB-94    ,NO ,  -6.092E-03,   1.859E+00,   3.060E+00,,   -0.002
C,NB-95    ,NO ,   2.393E+00,   2.031E+00,   3.511E+00,,    0.681
C,ZR-95    ,NO ,  -4.684E-01,   3.378E+00,   5.492E+00,,   -0.085
C,MO-99    ,NO ,   2.269E+01,   3.058E+01,   5.208E+01,,    0.436
C,RU-103   ,NO ,  -8.402E-01,   2.020E+00,   3.209E+00,,   -0.262
C,RU-106   ,NO ,   4.099E+00,   1.718E+01,   2.881E+01,,    0.142
C,AG-110m  ,NO ,   3.936E-01,   1.811E+00,   3.025E+00,,    0.130
C,SN-113   ,NO ,  -1.791E+00,   2.522E+00,   4.033E+00,,   -0.444
C,SB-124   ,NO ,   2.406E+00,   3.425E+00,   3.180E+00,,    0.757
C,SB-125   ,NO ,   5.174E-01,   5.510E+00,   9.025E+00,,    0.057
C,TE-129M  ,NO ,  -4.860E+00,   2.346E+01,   3.783E+01,,   -0.128
C,I-131    ,NO ,  -9.488E-01,   2.471E+00,   4.016E+00,,   -0.236
C,BA-133   ,NO ,   2.492E+00,   2.997E+00,   4.417E+00,,    0.564
C,CS-134   ,NO ,   4.071E-01,   2.416E+00,   3.162E+00,,    0.129
C,CS-136   ,NO ,  -5.866E-01,   2.098E+00,   3.363E+00,,   -0.174
C,CS-137   ,NO ,  -8.461E-01,   2.038E+00,   3.301E+00,,   -0.256
C,CE-139   ,NO ,  -3.435E-01,   1.817E+00,   2.957E+00,,   -0.116
C,BA-140   ,NO ,   3.283E+00,   7.825E+00,   1.331E+01,,    0.247
C,LA-140   ,NO ,  -1.059E-01,   2.785E+00,   4.592E+00,,   -0.023
C,CE-141   ,NO ,  -1.473E-01,   3.617E+00,   5.391E+00,,   -0.027
C,CE-144   ,NO ,  -9.736E+00,   1.555E+01,   2.288E+01,,   -0.426
C,EU-152   ,NO ,  -9.091E-01,   6.942E+00,   9.797E+00,,   -0.093
C,EU-154   ,NO ,   5.198E-01,   3.796E+00,   6.300E+00,,    0.083
C,RA-226   ,NO ,  -2.140E+01,   5.076E+01,   7.827E+01,,   -0.273
C,TH-232   ,NO ,   4.631E+00,   9.112E+00,   1.346E+01,,    0.344
C,U-235    ,NO ,  -7.418E+00,   1.637E+01,   2.298E+01,,   -0.323
C,U-238    ,NO ,   1.683E+02,   2.127E+02,   3.690E+02,,    0.456
C,AM-241   ,NO ,  -1.930E+01,   2.170E+01,   3.421E+01,,   -0.564
```

TELEDYNE
BROWN ENGINEERING
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931
865-690-6819 (Phone)

Work Order #: L29548

Exelon

August 15, 2006

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville CT 06062

Case Narrative - L29548
EX001-3ESPTMI-06

08/16/2006 09:48

Sample Receipt

The following samples were received on August 10, 2006 in good condition, unless otherwise noted.

Sample RB-TMI-RB2-080806-MM-107 leaked during shipment. The container IDs did not contain the date code.

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-16I-080806-MM-104	L29548-1	
WG-TMI-16D-080806-MM-105	L29548-2	
WG-TMI-18D-080806-MM-106	L29548-3	
RB-TMI-RB2-080806-MM-107	L29548-4	
WG-TMI-19D-080906-MM-108	L29548-5	
WG-TMI-19I-080906-MM-109	L29548-6	
WG-TMI-DUP-080906-MM-110	L29548-7	
RB-TMI-RB3-080906-MM-111	L29548-8	

Analytical Method Cross Reference Table

Radiological Parameter	TBE Knoxville Method	Reference Method
Gamma Spectrometry	TBE-2007	EPA 901.1
H-3 (DIST)	TBE-2010	
TOTAL SR	TBE-2018	EPA 905.0

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L29548
EX001-3ESPTMI-06

08/16/2006 09:48

Gamma Spectroscopy

Quality Control

Quality control samples were analyzed as WG4304.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-DN-MW-DN-113I080906-GL-009	L29543-2	WG4304-1

H-3 (DIST)

Quality Control

Quality control samples were analyzed as WG4302.

Method Blank
All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample
All laboratory control samples were within acceptance limits, unless otherwise noted.

Duplicate Sample
Duplicates were analyzed for the following samples. All duplicate results were within acceptance limits, unless otherwise noted.

Client ID	Laboratory ID	QC Sample #
WG-DN-MW-DN-122I-080806-GL-001	L29515-1	WG4302-3

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4318.

Method Blank
All blanks were within acceptance limits, unless otherwise noted.

Laboratory Control Sample
All laboratory control samples were within acceptance limits, unless otherwise noted.

TELEDYNE
BROWN ENGINEERING, INC.
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133

Case Narrative - L29548
EX001-3ESPTMI-06

08/16/2006 09:48

Certification

This is to certify that Teledyne Brown Engineering - Environmental Services, located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

Keith Jeter
Operations Manager

Sample Receipt Summary

08/10/06 09:53

SR #: SR09857

Client: Exelon

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

Project #: EX001-3ESPTMI-06

LIMS #: L29548

Initiated By: PMARSHALL
Init Date: 08/10/06 Receive Date: 08/10/06

Notification of Variance

Person Notified: K. Shaw
Contacted By: R. Charles
Notify Date: 8/10/06
Notify Method: email
Notify Comment: See email

Client Response

Person Responding: K. Shaw
Response Date: 8/10/06
Response Method: email
Response Comment: See email

	Criteria	Yes No NA	Comment
1	Shipping container custody seals present and intact.	NA	
2	Sample container custody seals present and intact.	NA	
3	Sample containers received in good condition RB-TMI-RB2-080806-MM-107	N	Leaked during shipment and unpacking due to lid not being closed tight.
4	Chain of custody received with samples	Y	
5	All samples listed on chain of custody received	Y	
6	Sample container labels present and legible.	Y	
7	Information on container labels correspond with chain of custody	N	Date portion of client ID not on containers for set 104-107. Also, the date on COC varies from collect date on container for set 104-107. Set 104-107 has a collect date on the container of 8/7/06.
8	Sample(s) properly preserved and in appropriate container(s)	Y	pH of all Gamma samples at or below 2
9	Other (Describe)	NA	

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29 L29548

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: M. MYLET

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: Mercury	Selenium	Cadmium								REMARKS
	8/8/06	1035	WG-TM1-16I-080806-MM-104	NQW	2	X	X	X								
		1155	WG-TM1-16D-080806-MM-105		2	X	X	X								
		1410	WG-TM1-18D-080806-MM-106		2	X	X	X								
		1430	RB-TM1-RB2-080806-MM-107		2	X	X	X								
TOTAL NUMBER OF CONTAINERS					8	HEALTH/CHEMICAL HAZARDS										

RELINQUISHED BY ① [signature]	DATE: 8/9/06 TIME: 1330	RECEIVED BY: ① [signature] / AMERGEN	DATE: 8/9/06 TIME: 1331
RELINQUISHED BY: ② [signature] / AMERGEN	DATE: 8/9/06 TIME: 1352	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:

METHOD OF SHIPMENT: WAY BILL No.

White	–Fully Executed Copy
Yellow	–Receiving Laboratory Copy
Pink	–Shipper Copy
Goldenrod	–Sampler Copy

SAMPLE TEAM: M. MYLET

RECEIVED FOR LABORATORY BY: Pat Marshall DATE: 8/10/06 TIME: 0930

No CRA 06110

1001 (D) APR 28/97(NF) REV. 0 (F-15)

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29 L29548

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: M. MYLET

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: TELLURIUM	SELENIUM	SILVER	REMARKS
	8/9/06	1000	WG-TM1-19D-080906-MM-108	ABW	2	X	X	X	
	↓	1145	WG-TM1-19I-080906-MM-109	↓	↓	X	X	X	
		1300	WG-TM1-DUP-080906-MM-110			X	X	X	
		1330	RB-TM1-RB3-080906-MM-111			X	X	X	

TOTAL NUMBER OF CONTAINERS: 8

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY ① [signature]	DATE: 8/9/06 TIME: 1330	RECEIVED BY ① [signature]	DATE: 8/9/06 TIME: 1330
RELINQUISHED BY ② [signature]	DATE: 8/9/06 TIME: 1331	RECEIVED BY ②	DATE: TIME:
RELINQUISHED BY ③	DATE: TIME:	RECEIVED BY ③	DATE: TIME:

METHOD OF SHIPMENT:

WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: M. MYLET

RECEIVED FOR LABORATORY BY: Pat Marshall

DATE: 8/10/06 TIME: 0930

No CRA 06111

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L29548

Charles, Rebecca

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Thursday, August 10, 2006 4:15 PM
To: Charles, Rebecca
Cc: Reid, James; Larry.Walton@exeloncorp.com
Subject: RE: acknowledgements

Hi Rebecca,

The sample ids on the COC for L29548 are correct, the containers are wrong.
The acknowledgement form for L29543-2 is missing a dash - I have attached a marked up copy.
The COC for the 8/4/06 sampling at TMI is missing the date in the ids, I have attached a revised copy. FYI - I never received a sample acknowlage form for those samples.

Thanks,
Kathy

From: Charles, Rebecca [mailto:Rebecca.Charles@tbe.com]
Sent: Thursday, August 10, 2006 1:42 PM
To: zigmund.karpa@exeloncorp.com; Czech, Julie; Larry.Walton@exeloncorp.com; Rick.maldonado@exeloncorp.com; Scott.sklenar@exeloncorp.com; Shaw, Kathy; wayne.stotts@exeloncorp.com; Cameron, Mary
Subject: acknowledgements

Please note the variance report for L29548. The rinsate sample leaked during shipment, but we should have enough sample remaining for analysis. Also, several of the sample IDs and or collection dates on the paperwork did not exactly match the IDs or collection dates on the bottles.

Rebecca Charles
Teledyne Brown Engineering
Project Manager
(865) 934-0379
(865) 934-0396 (fax)

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TELEDYNE BROWN ENGINEERING
2508 Quality Lane
Knoxville, TN 37931-3133

ACENOWLEDGEMSNT
This is not an invoice

Kathy Shaw
Conestoga-Rovers & Associates
45 Farmington Valley Road
Plainville, CT 06062

August 10, 2006

The following sample(s) were received at Teledyne Brown Engineering Knoxville laboratory on August 10, 2006. The sample(s) have been scheduled for the analyses listed below and the report is scheduled for completion by August 15, 2006. Please review the following login information and pricing. Contact me if anything is incorrect or you have questions about the status of your sample(s).

Thank you for choosing Teledyne Brown Engineering for your analytical needs.

Sincerely,
Rebecca Charles
Project Manager
(865)934-0379

Project ID: EX001-3ESPTMI-06
P.O.#: 00411203
Release#:
Contract#: 00411203
Kathy Shaw, FAX#: 860-747-1900, larry.walton@exeloncorp.com

Client ID/ Station	Laboratory ID Analysis	Vol/Units Price	Start Collect Date/Time	End Collect Date/Time
WG-TMI-161-080806-MM 104	L29548-1		08/08/06:1035	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
WG-TMI-16D-080806-MM-105	L29548-2		08/08/06:1155	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
WG-TMI-18D-080806-MM-106	L29548-3		08/08/06:1410	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
RB-TMI-RB2-080806-MM-107	L29548-4		08/08/06:1430	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
WG-TMI-19D-080906-MM-108	L29548-4		08/09/06:1000	

Client ID/ Station	Laboratory ID Analysis	Vol/Units Price	Start Collect Date/Time	End Collect Date/Time
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
WG-TMI-19I-080906-MM-109	L29548-6		08/09/06:1145	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
WG-TMI-DUP-080906-MM-110	L29548-7		08/09/06:1300	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		
RB-TMI-RB3-080906-MM-111	L29548-8		08/09/06:1330	
WG	GELI	135.00		
WG	H-3 (DIST)	135.00		
WG	SR-90 (FAST)	175.00		

End of document

Internal Chain of Custody

08/16/06 09:42

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L29548-1 Containernum 1

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/11/2006 11:04	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-1 Containernum 2

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	030854	Donna Webb	029728	Lauren Larsen
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/14/2006 08:06	029728	Lauren Larsen	030854	Donna Webb
08/14/2006 08:06	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-2 Containernum 1

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/11/2006 11:04	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-2 Containernum 2

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	030854	Donna Webb	029728	Lauren Larsen
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/14/2006 08:06	029728	Lauren Larsen	030854	Donna Webb
08/14/2006 08:06	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-3 Containernum 1

Prod	Analyst

08/16/06 09:42

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L29548-3 Containernum 1

GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/11/2006 11:04	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-3 Containernum 2

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	030854	Donna Webb	029728	Lauren Larsen
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/14/2006 08:06	029728	Lauren Larsen	030854	Donna Webb
08/14/2006 08:06	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-4 Containernum 1

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/11/2006 11:04	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-4 Containernum 2

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	030854	Donna Webb	029728	Lauren Larsen
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/14/2006 08:06	029728	Lauren Larsen	030854	Donna Webb
08/14/2006 08:06	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-5 Containernum 1

Prod Analyst

08/16/06 09:42 Teledyne Brown Engineering

Internal Chain of Custody

****

Sample # L29548-5 Containernum 1

GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/11/2006 11:04	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-5 Containernum 2

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	030854	Donna Webb	029728	Lauren Larsen
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/14/2006 08:06	029728	Lauren Larsen	030854	Donna Webb
08/14/2006 08:06	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-6 Containernum 1

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/11/2006 11:04	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-6 Containernum 2

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	030854	Donna Webb	029728	Lauren Larsen
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/14/2006 08:06	029728	Lauren Larsen	030854	Donna Webb
08/14/2006 08:06	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-7 Containernum 1

Prod	Analyst

08/16/06 09:42

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L29548-7 Containernum 1

GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/11/2006 11:04	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-7 Containernum 2

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	030854	Donna Webb	029728	Lauren Larsen
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/14/2006 08:06	029728	Lauren Larsen	030854	Donna Webb
08/14/2006 08:06	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-8 Containernum 1

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/11/2006 11:04	030854	Donna Webb	099999	Sample Custodian

****

Sample # L29548-8 Containernum 2

Prod	Analyst
GELI	DW
H-3 (DIST)	DW
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
08/10/2006 00:00			099999	Sample Custodian
08/10/2006 12:21	030854	Donna Webb	029728	Lauren Larsen
08/10/2006 12:21	099999	Sample Custodian	030854	Donna Webb
08/14/2006 08:06	029728	Lauren Larsen	030854	Donna Webb
08/14/2006 08:06	030854	Donna Webb	099999	Sample Custodian

08/16/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L29548

****

L29548-1 WG WG-TMI-16I-080806-MM-104

Process step	Prod	Analyst	Date
Login		RCHARLES	08/10/06
Aliquot	GELI	DW	08/10/06
Aliquot	H-3 (DIST)	DW	08/11/06
Aliquot	SR-90 (FAST)	LCB	08/11/06
Count Room	H-3 (DIST)	KOJ	08/11/06

****

L29548-2 WG WG-TMI-16D-080806-MM-105

Process step	Prod	Analyst	Date
Login		RCHARLES	08/10/06
Aliquot	GELI	DW	08/10/06
Aliquot	H-3 (DIST)	DW	08/11/06
Aliquot	SR-90 (FAST)	LCB	08/11/06
Count Room	GELI	ILL	08/11/06
Count Room	H-3 (DIST)	KOJ	08/12/06
Count Room	SR-90 (FAST)	KOJ	08/15/06

****

L29548-3 WG WG-TMI-18D-080806-MM-106

Process step	Prod	Analyst	Date
Login		RCHARLES	08/10/06
Aliquot	GELI	DW	08/10/06
Aliquot	H-3 (DIST)	DW	08/11/06
Aliquot	SR-90 (FAST)	LCB	08/11/06
Count Room	GELI	ILL	08/11/06
Count Room	H-3 (DIST)	KOJ	08/12/06
Count Room	SR-90 (FAST)	KOJ	08/15/06

****

L29548-4 WG RB-TMI-RB2-080806-MM-107

Process step	Prod	Analyst	Date
Login		RCHARLES	08/10/06
Aliquot	GELI	DW	08/10/06
Aliquot	H-3 (DIST)	DW	08/11/06
Aliquot	SR-90 (FAST)	LCB	08/11/06
Count Room	GELI	ILL	08/11/06
Count Room	H-3 (DIST)	KOJ	08/12/06
Count Room	SR-90 (FAST)	KOJ	08/15/06

****

L29548-5 WG WG-TMI-19D-080906-MM-108

Process step	Prod	Analyst	Date
Login		RCHARLES	08/10/06
Aliquot	GELI	DW	08/10/06
Aliquot	H-3 (DIST)	DW	08/11/06
Aliquot	SR-90 (FAST)	LCB	08/11/06
Count Room	GELI	ILL	08/11/06
Count Room	H-3 (DIST)	KOJ	08/12/06
Count Room	SR-90 (FAST)	KOJ	08/15/06

08/16/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L29548

****

L29548-6 **WG** **WG-TMI-19I-080906-MM-109**

Process step	Prod	Analyst	Date
Login		RCHARLES	08/10/06
Aliquot	GELI	DW	08/10/06
Aliquot	H-3 (DIST)	DW	08/11/06
Aliquot	SR-90 (FAST)	LCB	08/11/06
Count Room	GELI	ILL	08/11/06
Count Room	H-3 (DIST)	KOJ	08/12/06

****

L29548-7 **WG** **WG-TMI-DUP-080906-MM-110**

Process step	Prod	Analyst	Date
Login		RCHARLES	08/10/06
Aliquot	GELI	DW	08/10/06
Aliquot	H-3 (DIST)	DW	08/11/06
Aliquot	SR-90 (FAST)	LCB	08/11/06
Count Room	GELI	ILL	08/11/06
Count Room	H-3 (DIST)	KOJ	08/12/06
Count Room	SR-90 (FAST)	KOJ	08/15/06

****

L29548-8 **WG** **RB-TMI-RB3-080906-MM-111**

Process step	Prod	Analyst	Date
Login		RCHARLES	08/10/06
Aliquot	GELI	DW	08/10/06
Aliquot	H-3 (DIST)	DW	08/11/06
Aliquot	SR-90 (FAST)	LCB	08/11/06
Count Room	GELI	ILL	08/11/06
Count Room	H-3 (DIST)	KOJ	08/12/06
Count Room	SR-90 (FAST)	KOJ	08/15/06

Analytical Results Summary

Report of Analysis

08/16/06 10:23

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29548

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-16I-080806-MM-104**
Station:
Description:
LIMS Number: L29548-1

Collect Start: 08/08/2006 10:35
Collect Stop:
Receive Date: 08/10/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3 (DIST)	2010	**5.04E+02**	1.35E+02	1.74E+02	pCi/L		10	ml		08/11/06	60	M	+		
TOTAL SR	2018	-4.57E-01	7.36E-01	**1.59E+00**	pCi/L		450	ml	08/08/06 10:35	08/15/06	120	M	U		
MN-54	2007	-2.34E+00	2.84E+00	**4.05E+00**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
CO-58	2007	-2.34E+00	3.14E+00	**4.61E+00**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
FE-59	2007	3.70E+00	6.68E+00	**1.19E+01**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
CO-60	2007	3.12E+00	3.37E+00	**6.44E+00**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
ZN-65	2007	4.61E+00	8.28E+00	**1.32E+01**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
NB-95	2007	-1.12E+00	3.80E+00	**6.12E+00**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
ZR-95	2007	-3.32E-01	5.39E+00	**8.92E+00**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
CS-134	2007	1.10E+00	3.72E+00	**5.45E+00**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
CS-137	2007	-4.12E+00	3.74E+00	**5.45E+00**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
BA-140	2007	-6.18E+00	1.33E+01	**2.01E+01**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No
LA-140	2007	-4.75E-01	4.30E+00	**7.03E+00**	pCi/L		3566.45	ml	08/08/06 10:35	08/11/06	5881	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

08/16/06 10:23

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29548

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-16D-080806-MM-105**
Station:
Description:
LIMS Number: L29548-2

Collect Start: 08/08/2006 11:55
Collect Stop:
Receive Date: 08/10/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3 (DIST)	2010	**4.16E+02**	1.31E+02	1.75E+02	pCi/L		10	ml		08/12/06	60	M	+			
TOTAL SR	2018	5.26E-01	6.90E-01	**1.31E+00**	pCi/L		450	ml	08/08/06 11:55	08/15/06	120	M	U			
MN-54	2007	-1.88E+00	3.27E+00	**5.00E+00**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
CO-58	2007	-1.70E-01	3.21E+00	**5.20E+00**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
FE-59	2007	5.14E+00	6.02E+00	**1.10E+01**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
CO-60	2007	2.70E-01	3.37E+00	**5.63E+00**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
ZN-65	2007	9.45E-01	7.23E+00	**1.07E+01**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
NB-95	2007	3.05E+00	4.14E+00	**6.36E+00**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
ZR-95	2007	1.27E+00	5.63E+00	**9.41E+00**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
CS-134	2007	-2.35E-01	3.63E+00	**5.17E+00**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
CS-137	2007	-5.66E+00	3.56E+00	**5.01E+00**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
BA-140	2007	-7.06E+00	1.27E+01	**2.02E+01**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	
LA-140	2007	2.07E+00	4.84E+00	**8.35E+00**	pCi/L		3311.99	ml	08/08/06 11:55	08/11/06	9481	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

08/16/06 10:23

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29548

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-18D-080806-MM-106**
Station:
Description:
LIMS Number: L29548-3

Collect Start: 08/08/2006 14:10
Collect Stop:
Receive Date: 08/10/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3 (DIST)	2010	**2.25E+02**	1.19E+02	1.72E+02	pCi/L		10	ml		08/12/06	60	M	+			
TOTAL SR	2018	7.24E-01	6.94E-01	**1.30E+00**	pCi/L		450	ml	08/08/06 14:10	08/15/06	120	M	U			
MN-54	2007	-9.68E-01	2.97E+00	**4.80E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
CO-58	2007	-7.66E-01	2.96E+00	**4.83E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
FE-59	2007	-2.29E+00	6.23E+00	**9.82E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
CO-60	2007	5.18E-01	3.01E+00	**4.99E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
ZN-65	2007	4.61E+00	7.35E+00	**1.13E+01**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
NB-95	2007	5.34E+00	3.13E+00	**5.90E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
ZR-95	2007	4.67E+00	5.21E+00	**9.35E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
CS-134	2007	-4.81E-01	3.72E+00	**5.14E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
CS-137	2007	-1.49E+00	3.50E+00	**5.45E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
BA-140	2007	6.57E-02	1.24E+01	**2.03E+01**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	
LA-140	2007	1.78E+00	4.13E+00	**7.21E+00**	pCi/L		3445.39	ml	08/08/06 14:10	08/11/06	9601	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

08/16/06 10:23

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29548

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **RB-TMI-RB2-080806-MM-107**
Station:
Description:
LIMS Number: L29548-4

Collect Start: 08/08/2006 14:30
Collect Stop:
Receive Date: 08/10/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3 (DIST)	2010	**2.55E+02**	1.23E+02	1.77E+02	pCi/L		10	ml		08/12/06	60	M	+			
TOTAL SR	2018	4.64E-01	5.67E-01	**1.08E+00**	pCi/L		450	ml	08/08/06 14:30	08/15/06	120	M	U			
MN-54	2007	-6.29E-01	3.34E+00	**5.49E+00**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
CO-58	2007	-2.83E-01	3.37E+00	**5.36E+00**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
FE-59	2007	-3.89E+00	6.84E+00	**1.04E+01**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
CO-60	2007	-1.45E+00	3.16E+00	**4.67E+00**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
ZN-65	2007	-1.80E+01	8.60E+00	**1.04E+01**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
NB-95	2007	1.70E+00	3.65E+00	**6.17E+00**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
ZR-95	2007	-1.77E+00	6.01E+00	**9.36E+00**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
CS-134	2007	1.88E+00	3.74E+00	**5.64E+00**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
CS-137	2007	-1.71E+00	3.59E+00	**5.55E+00**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
BA-140	2007	-6.60E+00	1.46E+01	**2.32E+01**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	
LA-140	2007	-3.78E-01	4.28E+00	**6.98E+00**	pCi/L		3084.51	ml	08/08/06 14:30	08/11/06	9361	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

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Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

08/16/06 10:23

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29548

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-19D-080906-MM-108**
Station:
Description:
LIMS Number: L29548-5

Collect Start: 08/09/2006 10:00
Collect Stop:
Receive Date: 08/10/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3 (DIST)	2010	**3.17E+02**	1.26E+02	1.75E+02	pCi/L		10	ml		08/12/06	60	M	+			
TOTAL SR	2018	7.57E-01	7.48E-01	**1.39E+00**	pCi/L		450	ml	08/09/06 10:00	08/15/06	120	M	U			
MN-54	2007	-8.54E-01	3.54E+00	**6.37E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
CO-58	2007	-2.74E+00	3.73E+00	**6.37E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
FE-59	2007	-8.07E+00	5.90E+00	**8.74E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
CO-60	2007	-5.86E-01	3.33E+00	**6.09E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
ZN-65	2007	2.02E-01	6.69E+00	**1.11E+01**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
NB-95	2007	6.43E+00	4.68E+00	**8.33E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
ZR-95	2007	-4.32E+00	6.04E+00	**9.66E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
CS-134	2007	3.22E+00	3.91E+00	**6.63E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
CS-137	2007	-2.93E+00	4.15E+00	**6.69E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
BA-140	2007	-2.79E+00	1.41E+01	**2.42E+01**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	
LA-140	2007	-6.47E+00	4.46E+00	**6.02E+00**	pCi/L		3476.46	ml	08/09/06 10:00	08/11/06	5400	Sec	U		No	

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
Spec = MDC exceeds customer technical specification
L = Low recovery
H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Report of Analysis

08/16/06 10:23

L29548

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-19I-080906-MM-109**
Station:
Description:
LIMS Number: L29548-6

Collect Start: 08/09/2006 11:45
Collect Stop:
Receive Date: 08/10/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3 (DIST)	2010	**2.57E+02**	1.19E+02	1.70E+02	pCi/L		10	ml		08/12/06	60	M	+		
TOTAL SR	2018	4.73E-02	4.41E-01	**8.93E-01**	pCi/L		450	ml	08/09/06 11:45	08/15/06	120	M	U		
MN-54	2007	3.96E-01	3.42E+00	**5.73E+00**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
CO-58	2007	-3.11E-01	3.20E+00	**5.24E+00**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
FE-59	2007	-2.57E+00	6.55E+00	**1.00E+01**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
CO-60	2007	1.06E+00	2.68E+00	**4.79E+00**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
ZN-65	2007	3.66E+00	7.50E+00	**1.15E+01**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
NB-95	2007	1.25E+01	4.18E+00	**8.13E+00**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U*		No
ZR-95	2007	-5.09E+00	5.83E+00	**8.77E+00**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
CS-134	2007	3.60E+00	4.06E+00	**6.28E+00**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
CS-137	2007	-4.88E+00	3.47E+00	**4.96E+00**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
BA-140	2007	7.07E-02	1.34E+01	**2.16E+01**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No
LA-140	2007	5.94E-01	5.09E+00	**8.53E+00**	pCi/L		3477.25	ml	08/09/06 11:45	08/11/06	5340	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
\+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
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L = Low recovery
H = High recovery

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No = Peak not identified in gamma spectrum
Yes = Peak identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Report of Analysis

08/16/06 10:23

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L29548

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-DUP-080906-MM-110**
Station:
Description:
LIMS Number: L29548-7

Collect Start: 08/09/2006 13:00
Collect Stop:
Receive Date: 08/10/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3 (DIST)	2010	**3.31E+02**	1.29E+02	1.79E+02	pCi/L		10	ml		08/12/06	60	M	+		
TOTAL SR	2018	1.35E+00	8.56E-01	**1.51E+00**	pCi/L		450	ml	08/09/06 13:00	08/15/06	120	M	U		
MN-54	2007	-3.32E+00	3.44E+00	**5.13E+00**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
CO-58	2007	-3.95E+00	3.53E+00	**5.20E+00**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
FE-59	2007	1.59E+00	6.77E+00	**1.12E+01**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
CO-60	2007	-1.80E+00	3.81E+00	**6.41E+00**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
ZN-65	2007	4.47E+00	8.16E+00	**1.24E+01**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U*		No
NB-95	2007	7.21E+00	3.92E+00	**6.83E+00**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
ZR-95	2007	-7.98E-01	5.36E+00	**8.76E+00**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
CS-134	2007	1.93E+00	3.41E+00	**5.32E+00**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
CS-137	2007	-1.40E+00	3.63E+00	**5.88E+00**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
BA-140	2007	-1.00E+01	1.29E+01	**1.92E+01**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No
LA-140	2007	7.10E-01	4.29E+00	**7.19E+00**	pCi/L		3484.64	ml	08/09/06 13:00	08/11/06	7923	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
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U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High = Activity concentration exceeds customer reporting value
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H = High recovery

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MDC - Minimum Detectable Concentration

Report of Analysis

08/16/06 10:23

L29548

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **RB-TMI-RB3-080906-MM-111**
Station:
Description:
LIMS Number: L29548-8

Collect Start: 08/09/2006 13:30
Collect Stop:
Receive Date: 08/10/2006

Matrix: Ground Water (WG)
Volume:
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3 (DIST)	2010	1.25E+02	1.09E+02	**1.67E+02**	pCi/L		10	ml		08/12/06	60	M	U		
TOTAL SR	2018	6.71E-01	9.85E-01	**1.88E+00**	pCi/L		450	ml	08/09/06 13:30	08/15/06	120	M	U		
MN-54	2007	1.24E+00	3.29E+00	**5.73E+00**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
CO-58	2007	-2.46E+00	2.98E+00	**4.31E+00**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
FE-59	2007	-1.25E+00	6.64E+00	**1.05E+01**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
CO-60	2007	4.21E-01	3.02E+00	**5.04E+00**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
ZN-65	2007	3.90E-01	8.17E+00	**1.17E+01**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
NB-95	2007	-2.56E+00	3.46E+00	**5.24E+00**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
ZR-95	2007	-5.60E-01	5.02E+00	**8.24E+00**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
CS-134	2007	-1.84E+00	4.37E+00	**5.67E+00**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
CS-137	2007	-5.83E-01	3.71E+00	**6.12E+00**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
BA-140	2007	4.16E+00	1.24E+01	**2.07E+01**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No
LA-140	2007	9.92E-01	4.70E+00	**8.15E+00**	pCi/L		3448.71	ml	08/09/06 13:30	08/11/06	6271	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
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MDC - Minimum Detectable Concentration

QC Results Summary

QC Summary Report for L29548

8/16/2006 10:17:24AM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

H-3 (DIST)

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4302-1	H-3 (DIST)	WO	08/10/2006 17:02	< 1.810E+00	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4302-2	H-3 (DIST)	WO	08/10/2006 18:06	5.05E+002	5.830E+02	pCi/Total	115.5	70-130	+	P

Spike ID: 3H-041706-1
Spike conc: 5.05E+002
Spike Vol: 1.00E+000

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4302-3 L29515-1	H-3 (DIST)	WG	08/10/2006 18:23	< 1.790E+02	< 1.810E+02	pCi/L		<30	**	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

QC Summary Report for L29548

8/16/2006 10:17:24AM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

TOTAL SR

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4318-1	TOTAL SR	WO	08/15/2006 14:02	< 1.170E+00	pCi/Total	U	P

LCS Sample Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
WG4318-2	TOTAL SR	WO	08/15/2006 14:02	5.84E+001	6.710E+01	pCi/Total	115.0	70-130	+	P

Spike ID: 90SR-011905
Spike conc: 2.34E+002
Spike Vol: 2.50E-001

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4318-3 L29543-1	TOTAL SR	WG	08/15/2006 16:21	< 1.390E+00	1.750E+00	pCi/L		<30	*	NE

+	Positive Result
U	Compound/analyte was analyzed, peak not identified and/or not detected above MDC
*	< 5 times the MDC are not evaluated
**	Nuclide not detected
***	Spiking level < 5 times activity
P	Pass
F	Fail
NE	Not evaluated

Raw Data

Raw Data Sheet (rawdata)
Aug 16 2006, 10:14 am

Work Order: *L29548* Customer: *Exelon*

Nuclide: *H-3 (DIST)* Project : *EX001-3ESPTMI-06*

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L29548-1		H-3 DIST		10 ml			0		11-aug-06 23:26	LS7	250	60	1.82	60	.21		DW
WG-TMI-16I-080806-MM-104																	
Activity: 5.04E+02 * Error: 1.35E+02			MDC: 1.74E+02														
L29548-2		H-3 DIST		10 ml			0		12-aug-06 00:30	LS7	225	60	1.82	60	.209		DW
WG-TMI-16D-080806-MM-105																	
Activity: 4.16E+02 * Error: 1.31E+02			MDC: 1.75E+02														
L29548-3		H-3 DIST		10 ml			0		12-aug-06 01:34	LS7	173	60	1.82	60	.212		DW
WG-TMI-18D-080806-MM-106																	
Activity: 2.25E+02 * Error: 1.19E+02			MDC: 1.72E+02														
L29548-4		H-3 DIST		10 ml			0		12-aug-06 02:38	LS7	179	60	1.82	60	.207		DW
RB-TMI-RB2-080806-MM-107																	
Activity: 2.55E+02 * Error: 1.23E+02			MDC: 1.77E+02														
L29548-5		H-3 DIST		10 ml			0		12-aug-06 03:42	LS7	197	60	1.82	60	.209		DW
WG-TMI-19D-080906-MM-108																	
Activity: 3.17E+02 * Error: 1.26E+02			MDC: 1.75E+02														
L29548-6		H-3 DIST		10 ml			0		12-aug-06 04:46	LS7	183	60	1.82	60	.216		DW
WG-TMI-19I-080906-MM-109																	
Activity: 2.57E+02 * Error: 1.19E+02			MDC: 1.7E+02														
L29548-7		H-3 DIST		10 ml			0		12-aug-06 05:50	LS7	199	60	1.82	60	.204		DW
WG-TMI-DUP-080906-MM-110																	
Activity: 3.31E+02 * Error: 1.29E+02			MDC: 1.79E+02														
L29548-8		H-3 DIST		10 ml			0		12-aug-06 06:53	LS7	146	60	1.82	60	.219		DW
RB-TMI-RB3-080906-MM-111																	
Activity: 1.25E+02 Error: 1.09E+02			MDC: 1.67E+02 *														

Raw Data Sheet (rawdata)
Aug 16 2006, 10:14 am

Work Order: L29548 Customer: Exelon

Nuclide: SR-90 (FAST) Project : EX001-3ESPTMI-06

Sample ID / Client ID	Run #	Analysis	Reference Date/time	Volume/ Aliquot	Scavenge Date/time	Milking Date/time	Mount Weight	Recovery	Count Date/time	Counter ID	Total counts	Sample dt(min)	Bkg counts	Bkg dt(min)	Eff.	Decay & Ingrowth Factor	Analyst
L29548-1		TOTAL SR	08-aug-06 10:35	450 ml	15-aug-06 08:30		0	72.25	15-aug-06 19:25	X1B	89	120	342	400	.343	1	LCB
WG-TMI-16I-080806-MM-104 Activity: -4.57E-01 Error: 7.36E-01 MDC: 1.59E+00 *																	
L29548-2		TOTAL SR	08-aug-06 11:55	450 ml	15-aug-06 08:30		0	82.69	15-aug-06 16:20	X2D	110	120	307	400	.343	1	LCB
WG-TMI-16D-080806-MM-105 Activity: 5.26E-01 Error: 6.9E-01 MDC: 1.31E+00 *																	
L29548-3		TOTAL SR	08-aug-06 14:10	450 ml	15-aug-06 08:30		0	93.13	15-aug-06 16:20	X3A	136	120	363	400	.335	1	LCB
WG-TMI-18D-080806-MM-106 Activity: 7.24E-01 Error: 6.94E-01 MDC: 1.3E+00 *																	
L29548-4		TOTAL SR	08-aug-06 14:30	450 ml	15-aug-06 08:30		0	103.30	15-aug-06 16:20	X3B	116	120	321	400	.343	1	LCB
RB-TMI-RB2-080806-MM-107 Activity: 4.64E-01 Error: 5.67E-01 MDC: 1.08E+00 *																	
L29548-5		TOTAL SR	09-aug-06 10:00	450 ml	15-aug-06 08:30		0	76.10	15-aug-06 16:20	X3C	112	120	294	400	.345	1	LCB
WG-TMI-19D-080906-MM-108 Activity: 7.57E-01 Error: 7.48E-01 MDC: 1.39E+00 *																	
L29548-6		TOTAL SR	09-aug-06 11:45	450 ml	15-aug-06 08:30		0	114.56	15-aug-06 19:25	X1C	89	120	289	400	.354	1	LCB
WG-TMI-19I-080906-MM-109 Activity: 4.73E-02 Error: 4.41E-01 MDC: 8.93E-01 *																	
L29548-7		TOTAL SR	09-aug-06 13:00	450 ml	15-aug-06 08:30		0	69.51	15-aug-06 16:21	X4C	129	120	299	400	.35	1	LCB
WG-TMI-DUP-080906-MM-110 Activity: 1.35E+00 Error: 8.56E-01 MDC: 1.51E+00 *																	
L29548-8		TOTAL SR	09-aug-06 13:30	450 ml	15-aug-06 08:30		0	51.92	15-aug-06 16:20	X2A	94	120	264	400	.354	1	LCB
RB-TMI-RB3-080906-MM-111 Activity: 6.71E-01 Error: 9.85E-01 MDC: 1.88E+00 *																	

Sec. Review: KW Analyst: JM LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-AUG-2006 12:14:25.89
TBE10 12892256 HpGe ********** Aquisition Date/Time: 11-AUG-2006 10:29:04.94

LIMS No., Customer Name, Client ID: L29548-1 WG EX/TMI

Sample ID : 10L29548-1
Sample Type : WG
Quantity : 3.56650E+00 L
Start Channel : 80 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 8-AUG-2006 10:35:00.0
Geometry : 1035L091004
BKGFILE : 10BG072806MT
Real Time : 0 01:38:02.16
Live time : 0 01:38:01.07

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.19	69	195	1.27	131.81	6.30E-01	1.18E-02	37.1	6.33E-01
2	1	240.06	84	268	5.52	479.86	1.40E+00	1.43E-02	47.0	3.04E+00
3	1	295.00*	150	119	2.95	589.83	1.21E+00	2.55E-02	16.7	1.66E+01
4	1	351.90*	156	91	1.59	703.74	1.07E+00	2.65E-02	15.9	1.43E+00
5	1	445.62	22	34	1.97	891.35	8.87E-01	3.76E-03	48.9	3.11E+00
6	1	609.36*	137	53	1.40	1219.14	6.94E-01	2.34E-02	14.1	1.02E+00
7	1	1120.20*	24	25	3.42	2241.90	4.33E-01	4.01E-03	49.1	3.16E+00
8	1	1156.18	18	2	2.80	2313.93	4.23E-01	3.04E-03	25.0	9.25E-01
9	1	1238.16*	19	22	2.00	2478.10	4.01E-01	3.28E-03	56.1	1.43E+00
10	1	1461.25*	10	10	2.83	2924.79	3.56E-01	1.77E-03	103.0	3.98E-01
11	1	1764.41*	25	3	2.64	3531.87	3.13E-01	4.30E-03	25.8	7.61E-01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	10	10.67*	3.558E-01	3.534E+01	3.534E+01	206.05

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L29548-1

Acquisition date : 11-AUG-2006 10:29:04

Total number of lines in spectrum	11	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	2	18.18%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.534E+01	3.534E+01	7.282E+01	206.05	
		Total Activity :	3.534E+01	3.534E+01			
		Grand Total Activity :	3.534E+01	3.534E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 10L29548-1

Acquisition date : 11-AUG-2006 10:29:04

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.19	69	195	1.27	131.81	128	8	1.18E-02	74.2	6.30E-01	
1	240.06	84	268	5.52	479.86	470	18	1.43E-02	94.0	1.40E+00	T
1	295.00	150	119	2.95	589.83	585	13	2.55E-02	33.5	1.21E+00	
1	351.90	156	91	1.59	703.74	697	14	2.65E-02	31.9	1.07E+00	
1	445.62	22	34	1.97	891.35	889	8	3.76E-03	97.8	8.87E-01	
1	609.36	137	53	1.40	1219.14	1214	12	2.34E-02	28.3	6.94E-01	
1	1120.20	24	25	3.42	2241.90	2236	13	4.01E-03	98.1	4.33E-01	
1	1156.18	18	2	2.80	2313.93	2309	8	3.04E-03	50.0	4.23E-01	
1	1238.16	19	22	2.00	2478.10	2472	14	3.28E-03	****	4.01E-01	
1	1764.41	25	3	2.64	3531.87	3527	11	4.30E-03	51.6	3.13E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	11	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	2	18.18%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	3.534E+01	3.534E+01	7.282E+01	206.05	
		Total Activity :	3.534E+01	3.534E+01			
		Grand Total Activity :	3.534E+01	3.534E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	3.534E+01	7.282E+01	4.939E+01	0.000E+00	0.716

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-1.585E+01		2.683E+01	4.003E+01	0.000E+00	-0.396

NA-24	-1.116E+02	1.025E+02	1.224E+02	0.000E+00	-0.912
CR-51	1.305E+00	3.015E+01	4.965E+01	0.000E+00	0.026
MN-54	-2.335E+00	2.844E+00	4.050E+00	0.000E+00	-0.576
CO-57	-1.218E+00	3.548E+00	5.905E+00	0.000E+00	-0.206
CO-58	-2.336E+00	3.135E+00	4.612E+00	0.000E+00	-0.507
FE-59	3.700E+00	6.682E+00	1.190E+01	0.000E+00	0.311
CO-60	3.120E+00	3.365E+00	6.437E+00	0.000E+00	0.485
ZN-65	4.608E+00	8.280E+00	1.320E+01	0.000E+00	0.349
SE-75	-3.134E+00	4.625E+00	7.265E+00	0.000E+00	-0.431
SR-85	-8.457E+00	4.364E+00	5.754E+00	0.000E+00	-1.470
Y-88	-1.926E+00	3.874E+00	5.704E+00	0.000E+00	-0.338
NB-94	1.455E+00	3.231E+00	5.695E+00	0.000E+00	0.255
NB-95	-1.124E+00	3.801E+00	6.124E+00	0.000E+00	-0.184
ZR-95	-3.321E-01	5.390E+00	8.917E+00	0.000E+00	-0.037
MO-99	-4.033E+01	5.417E+01	8.165E+01	0.000E+00	-0.494
RU-103	1.135E+00	3.552E+00	5.925E+00	0.000E+00	0.192
RU-106	1.458E+01	3.229E+01	5.700E+01	0.000E+00	0.256
AG-110m	-2.025E+00	3.121E+00	4.807E+00	0.000E+00	-0.421
SN-113	3.669E+00	4.178E+00	7.388E+00	0.000E+00	0.497
SB-124	-2.116E+00	3.486E+00	4.873E+00	0.000E+00	-0.434
SB-125	1.244E+01	9.705E+00	1.772E+01	0.000E+00	0.702
TE-129M	-4.926E+01	4.022E+01	5.561E+01	0.000E+00	-0.886
I-131	-2.268E+00	4.821E+00	7.549E+00	0.000E+00	-0.300
BA-133	-5.256E-01	4.894E+00	6.899E+00	0.000E+00	-0.076
CS-134	1.097E+00	3.724E+00	5.448E+00	0.000E+00	0.201
CS-136	1.682E+00	3.470E+00	6.178E+00	0.000E+00	0.272
CS-137	-4.123E+00	3.744E+00	5.445E+00	0.000E+00	-0.757
CE-139	-7.827E-01	3.460E+00	5.735E+00	0.000E+00	-0.136
BA-140	-6.183E+00	1.334E+01	2.006E+01	0.000E+00	-0.308
LA-140	-4.752E-01	4.298E+00	7.033E+00	0.000E+00	-0.068
CE-141	1.324E+00	6.222E+00	1.058E+01	0.000E+00	0.125
CE-144	-5.510E+00	2.723E+01	4.551E+01	0.000E+00	-0.121
EU-152	4.281E+00	1.112E+01	1.820E+01	0.000E+00	0.235
EU-154	1.638E+00	7.417E+00	1.267E+01	0.000E+00	0.129
RA-226	2.766E+01	9.176E+01	1.599E+02	0.000E+00	0.173
AC-228	-7.928E-01	1.186E+01	2.097E+01	0.000E+00	-0.038
TH-228	4.431E+00	6.987E+00	1.231E+01	0.000E+00	0.360
TH-232	-7.920E-01	1.185E+01	2.095E+01	0.000E+00	-0.038
U-235	-2.248E+01	2.823E+01	4.574E+01	0.000E+00	-0.491
U-238	1.892E+02	3.674E+02	6.527E+02	0.000E+00	0.290
AM-241	-8.248E+00	3.131E+01	4.936E+01	0.000E+00	-0.167

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A,10L29548-1       ,08/11/2006 12:14,08/08/2006 10:35,   3.566E+00,L29548-1 WG EX
B,10L29548-1       ,LIBD                  ,08/11/2006 09:47,1035L091004
C,K-40     ,YES,   3.534E+01,   7.282E+01,   4.939E+01,,    0.716
C,BE-7     ,NO ,  -1.585E+01,   2.683E+01,   4.003E+01,,   -0.396
C,NA-24    ,NO ,  -1.116E+02,   1.025E+02,   1.224E+02,,   -0.912
C,CR-51    ,NO ,   1.305E+00,   3.015E+01,   4.965E+01,,    0.026
C,MN-54    ,NO ,  -2.335E+00,   2.844E+00,   4.050E+00,,   -0.576
C,CO-57    ,NO ,  -1.218E+00,   3.548E+00,   5.905E+00,,   -0.206
C,CO-58    ,NO ,  -2.336E+00,   3.135E+00,   4.612E+00,,   -0.507
C,FE-59    ,NO ,   3.700E+00,   6.682E+00,   1.190E+01,,    0.311
C,CO-60    ,NO ,   3.120E+00,   3.365E+00,   6.437E+00,,    0.485
C,ZN-65    ,NO ,   4.608E+00,   8.280E+00,   1.320E+01,,    0.349
C,SE-75    ,NO ,  -3.134E+00,   4.625E+00,   7.265E+00,,   -0.431
C,SR-85    ,NO ,  -8.457E+00,   4.364E+00,   5.754E+00,,   -1.470
C,Y-88     ,NO ,  -1.926E+00,   3.874E+00,   5.704E+00,,   -0.338
C,NB-94    ,NO ,   1.455E+00,   3.231E+00,   5.695E+00,,    0.255
C,NB-95    ,NO ,  -1.124E+00,   3.801E+00,   6.124E+00,,   -0.184
C,ZR-95    ,NO ,  -3.321E-01,   5.390E+00,   8.917E+00,,   -0.037
C,MO-99    ,NO ,  -4.033E+01,   5.417E+01,   8.165E+01,,   -0.494
C,RU-103   ,NO ,   1.135E+00,   3.552E+00,   5.925E+00,,    0.192
C,RU-106   ,NO ,   1.458E+01,   3.229E+01,   5.700E+01,,    0.256
C,AG-110m  ,NO ,  -2.025E+00,   3.121E+00,   4.807E+00,,   -0.421
C,SN-113   ,NO ,   3.669E+00,   4.178E+00,   7.388E+00,,    0.497
C,SB-124   ,NO ,  -2.116E+00,   3.486E+00,   4.873E+00,,   -0.434
C,SB-125   ,NO ,   1.244E+01,   9.705E+00,   1.772E+01,,    0.702
C,TE-129M  ,NO ,  -4.926E+01,   4.022E+01,   5.561E+01,,   -0.886
C,I-131    ,NO ,  -2.268E+00,   4.821E+00,   7.549E+00,,   -0.300
C,BA-133   ,NO ,  -5.256E-01,   4.894E+00,   6.899E+00,,   -0.076
C,CS-134   ,NO ,   1.097E+00,   3.724E+00,   5.448E+00,,    0.201
C,CS-136   ,NO ,   1.682E+00,   3.470E+00,   6.178E+00,,    0.272
C,CS-137   ,NO ,  -4.123E+00,   3.744E+00,   5.445E+00,,   -0.757
C,CE-139   ,NO ,  -7.827E-01,   3.460E+00,   5.735E+00,,   -0.136
C,BA-140   ,NO ,  -6.183E+00,   1.334E+01,   2.006E+01,,   -0.308
C,LA-140   ,NO ,  -4.752E-01,   4.298E+00,   7.033E+00,,   -0.068
C,CE-141   ,NO ,   1.324E+00,   6.222E+00,   1.058E+01,,    0.125
C,CE-144   ,NO ,  -5.510E+00,   2.723E+01,   4.551E+01,,   -0.121
C,EU-152   ,NO ,   4.281E+00,   1.112E+01,   1.820E+01,,    0.235
C,EU-154   ,NO ,   1.638E+00,   7.417E+00,   1.267E+01,,    0.129
C,RA-226   ,NO ,   2.766E+01,   9.176E+01,   1.599E+02,,    0.173
C,AC-228   ,NO ,  -7.928E-01,   1.186E+01,   2.097E+01,,   -0.038
C,TH-228   ,NO ,   4.431E+00,   6.987E+00,   1.231E+01,,    0.360
C,TH-232   ,NO ,  -7.920E-01,   1.185E+01,   2.095E+01,,   -0.038
C,U-235    ,NO ,  -2.248E+01,   2.823E+01,   4.574E+01,,   -0.491
C,U-238    ,NO ,   1.892E+02,   3.674E+02,   6.527E+02,,    0.290
C,AM-241   ,NO ,  -8.248E+00,   3.131E+01,   4.936E+01,,   -0.167
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-AUG-2006 13:07:17.61
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 11-AUG-2006 10:29:07.16

LIMS No., Customer Name, Client ID: L29548-2 WG EX/TMI

Sample ID : 11L29548-2
Sample Type : WG
Quantity : 3.31200E+00 L
Start Channel : 40 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 8-AUG-2006 11:55:00.0
Geometry : 1135L090204
BKGFILE : 11BG072806MT
Real Time : 0 02:38:04.80
Live time : 0 02:38:00.64

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	197.88*	71	341	1.40	395.98	1.57E+00	7.52E-03	50.5	
2	1	238.41*	22	229	1.48	477.27	1.42E+00	2.35E-03	129.3	1.09E+00
3	1	241.82	173	215	1.41	484.10	1.41E+00	1.82E-02	17.4	
4	0	294.96*	421	198	1.29	590.67	1.23E+00	4.44E-02	8.6	
5	0	351.76*	566	187	1.33	704.53	1.08E+00	5.97E-02	6.5	
6	0	609.11*	594	73	1.81	1220.13	7.02E-01	6.26E-02	5.2	
7	0	768.46	41	51	1.63	1539.16	5.86E-01	4.37E-03	34.9	
8	0	1120.29*	83	40	1.78	2242.80	4.37E-01	8.76E-03	20.8	
9	0	1238.04*	46	27	2.27	2478.10	4.04E-01	4.84E-03	29.1	
10	0	1378.75*	29	34	0.95	2759.13	3.71E-01	3.03E-03	50.8	
11	0	1401.11	35	20	1.57	2803.78	3.66E-01	3.69E-03	33.2	
12	0	1461.08*	6	15	3.19	2923.48	3.54E-01	6.59E-04	192.6	
13	0	1763.16*	86	24	2.13	3526.11	3.04E-01	9.04E-03	17.9	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	6	10.67*	3.539E-01	1.425E+01	1.425E+01	385.11
TH-228	238.63	22	44.60*	1.422E+00	3.019E+00	3.028E+00	258.52
	240.98	173	3.95	1.409E+00	2.668E+02	2.676E+02	34.73

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 11L29548-2

Acquisition date : 11-AUG-2006 10:29:07

Total number of lines in spectrum	13	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	3	23.08%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.425E+01	1.425E+01	5.486E+01	385.11	
TH-228	1.91Y	1.00	3.019E+00	3.028E+00	7.828E+00	258.52	
			---	---			
	Total Activity :		1.726E+01	1.727E+01			

Grand Total Activity : 1.726E+01 1.727E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 11L29548-2

Acquisition date : 11-AUG-2006 10:29:07

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	197.88	71	341	1.40	395.98	391	10	7.52E-03	****	1.57E+00	
0	294.96	421	198	1.29	590.67	584	13	4.44E-02	17.1	1.23E+00	
0	351.76	566	187	1.33	704.53	698	12	5.97E-02	13.1	1.08E+00	
0	609.11	594	73	1.81	1220.13	1215	12	6.26E-02	10.3	7.02E-01	
0	768.46	41	51	1.63	1539.16	1534	9	4.37E-03	69.7	5.86E-01	
0	1120.29	83	40	1.78	2242.80	2233	16	8.76E-03	41.6	4.37E-01	
0	1238.04	46	27	2.27	2478.10	2470	14	4.84E-03	58.1	4.04E-01	
0	1378.75	29	34	0.95	2759.13	2753	17	3.03E-03	****	3.71E-01	
0	1401.11	35	20	1.57	2803.78	2795	16	3.69E-03	66.4	3.66E-01	
0	1763.16	86	24	2.13	3526.11	3518	17	9.04E-03	35.9	3.04E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	13	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	3	23.08%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.425E+01	1.425E+01	5.486E+01	385.11	
TH-228	1.91Y	1.00	3.019E+00	3.028E+00	7.828E+00	258.52	
			---	---			
	Total Activity :		1.726E+01	1.727E+01			

Grand Total Activity : 1.726E+01 1.727E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	1.425E+01	5.486E+01	5.203E+01	0.000E+00	0.274
TH-228	3.028E+00	7.828E+00	9.486E+00	0.000E+00	0.319

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA

BE-7	-2.196E+01	2.578E+01	4.048E+01	0.000E+00	-0.542
NA-24	2.580E+01	9.311E+01	1.592E+02	0.000E+00	0.162
CR-51	6.235E-01	3.121E+01	5.052E+01	0.000E+00	0.012
MN-54	-1.883E+00	3.271E+00	5.001E+00	0.000E+00	-0.376
CO-57	-3.365E+00	3.173E+00	5.116E+00	0.000E+00	-0.658
CO-58	-1.700E-01	3.210E+00	5.201E+00	0.000E+00	-0.033
FE-59	5.135E+00	6.023E+00	1.099E+01	0.000E+00	0.467
CO-60	2.704E-01	3.370E+00	5.628E+00	0.000E+00	0.048
ZN-65	9.454E-01	7.230E+00	1.065E+01	0.000E+00	0.089
SE-75	2.943E+00	4.125E+00	6.986E+00	0.000E+00	0.421
SR-85	-7.380E+00	3.926E+00	5.867E+00	0.000E+00	-1.258
Y-88	1.551E+00	3.382E+00	5.921E+00	0.000E+00	0.262
NB-94	2.379E+00	3.098E+00	5.425E+00	0.000E+00	0.439
NB-95	3.053E+00	4.136E+00	6.364E+00	0.000E+00	0.480
ZR-95	1.269E+00	5.626E+00	9.405E+00	0.000E+00	0.135
MO-99	-2.578E+01	4.917E+01	7.629E+01	0.000E+00	-0.338
RU-103	-8.869E-01	3.432E+00	5.643E+00	0.000E+00	-0.157
RU-106	1.398E+01	2.832E+01	4.884E+01	0.000E+00	0.286
AG-110m	8.354E-01	2.885E+00	4.887E+00	0.000E+00	0.171
SN-113	-1.198E+00	4.247E+00	6.662E+00	0.000E+00	-0.180
SB-124	-3.827E+00	3.648E+00	4.899E+00	0.000E+00	-0.781
SB-125	3.438E+00	9.311E+00	1.605E+01	0.000E+00	0.214
TE-129M	-5.978E+01	3.611E+01	5.331E+01	0.000E+00	-1.121
I-131	8.109E-01	3.809E+00	6.217E+00	0.000E+00	0.130
BA-133	3.889E+00	4.982E+00	7.490E+00	0.000E+00	0.519
CS-134	-2.351E-01	3.625E+00	5.173E+00	0.000E+00	-0.045
CS-136	-4.607E-01	3.066E+00	4.898E+00	0.000E+00	-0.094
CS-137	-5.655E+00	3.562E+00	5.013E+00	0.000E+00	-1.128
CE-139	-1.053E+00	3.296E+00	5.407E+00	0.000E+00	-0.195
BA-140	-7.058E+00	1.266E+01	2.016E+01	0.000E+00	-0.350
LA-140	2.072E+00	4.839E+00	8.349E+00	0.000E+00	0.248
CE-141	7.997E-01	5.706E+00	9.569E+00	0.000E+00	0.084
CE-144	-3.024E-01	2.425E+01	4.055E+01	0.000E+00	-0.007
EU-152	2.016E+00	1.054E+01	1.660E+01	0.000E+00	0.121
EU-154	-5.661E+00	6.624E+00	1.076E+01	0.000E+00	-0.526
RA-226	1.531E+01	8.534E+01	1.432E+02	0.000E+00	0.107
AC-228	-7.090E-01	1.247E+01	2.174E+01	0.000E+00	-0.033
TH-232	-7.083E-01	1.246E+01	2.172E+01	0.000E+00	-0.033
U-235	-3.773E+00	2.485E+01	4.125E+01	0.000E+00	-0.091
U-238	-8.242E+01	3.513E+02	5.483E+02	0.000E+00	-0.150
AM-241	-1.397E+01	3.852E+01	6.058E+01	0.000E+00	-0.231

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A,11L29548-2       ,08/11/2006 13:07,08/08/2006 11:55,   3.312E+00,L29548-2 WG EX
B,11L29548-2       ,LIBD                ,08/11/2006 09:47,1135L090204
C,K-40     ,YES,   1.425E+01,   5.486E+01,   5.203E+01,,    0.274
C,TH-228   ,YES,   3.028E+00,   7.828E+00,   9.486E+00,,    0.319
C,BE-7     ,NO ,  -2.196E+01,   2.578E+01,   4.048E+01,,   -0.542
C,NA-24    ,NO ,   2.580E+01,   9.311E+01,   1.592E+02,,    0.162
C,CR-51    ,NO ,   6.235E-01,   3.121E+01,   5.052E+01,,    0.012
C,MN-54    ,NO ,  -1.883E+00,   3.271E+00,   5.001E+00,,   -0.376
C,CO-57    ,NO ,  -3.365E+00,   3.173E+00,   5.116E+00,,   -0.658
C,CO-58    ,NO ,  -1.700E-01,   3.210E+00,   5.201E+00,,   -0.033
C,FE-59    ,NO ,   5.135E+00,   6.023E+00,   1.099E+01,,    0.467
C,CO-60    ,NO ,   2.704E-01,   3.370E+00,   5.628E+00,,    0.048
C,ZN-65    ,NO ,   9.454E-01,   7.230E+00,   1.065E+01,,    0.089
C,SE-75    ,NO ,   2.943E+00,   4.125E+00,   6.986E+00,,    0.421
C,SR-85    ,NO ,  -7.380E+00,   3.926E+00,   5.867E+00,,   -1.258
C,Y-88     ,NO ,   1.551E+00,   3.382E+00,   5.921E+00,,    0.262
C,NB-94    ,NO ,   2.379E+00,   3.098E+00,   5.425E+00,,    0.439
C,NB-95    ,NO ,   3.053E+00,   4.136E+00,   6.364E+00,,    0.480
C,ZR-95    ,NO ,   1.269E+00,   5.626E+00,   9.405E+00,,    0.135
C,MO-99    ,NO ,  -2.578E+01,   4.917E+01,   7.629E+01,,   -0.338
C,RU-103   ,NO ,  -8.869E-01,   3.432E+00,   5.643E+00,,   -0.157
C,RU-106   ,NO ,   1.398E+01,   2.832E+01,   4.884E+01,,    0.286
C,AG-110m  ,NO ,   8.354E-01,   2.885E+00,   4.887E+00,,    0.171
C,SN-113   ,NO ,  -1.198E+00,   4.247E+00,   6.662E+00,,   -0.180
C,SB-124   ,NO ,  -3.827E+00,   3.648E+00,   4.899E+00,,   -0.781
C,SB-125   ,NO ,   3.438E+00,   9.311E+00,   1.605E+01,,    0.214
C,TE-129M  ,NO ,  -5.978E+01,   3.611E+01,   5.331E+01,,   -1.121
C,I-131    ,NO ,   8.109E-01,   3.809E+00,   6.217E+00,,    0.130
C,BA-133   ,NO ,   3.889E+00,   4.982E+00,   7.490E+00,,    0.519
C,CS-134   ,NO ,  -2.351E-01,   3.625E+00,   5.173E+00,,   -0.045
C,CS-136   ,NO ,  -4.607E-01,   3.066E+00,   4.898E+00,,   -0.094
C,CS-137   ,NO ,  -5.655E+00,   3.562E+00,   5.013E+00,,   -1.128
C,CE-139   ,NO ,  -1.053E+00,   3.296E+00,   5.407E+00,,   -0.195
C,BA-140   ,NO ,  -7.058E+00,   1.266E+01,   2.016E+01,,   -0.350
C,LA-140   ,NO ,   2.072E+00,   4.839E+00,   8.349E+00,,    0.248
C,CE-141   ,NO ,   7.997E-01,   5.706E+00,   9.569E+00,,    0.084
C,CE-144   ,NO ,  -3.024E-01,   2.425E+01,   4.055E+01,,   -0.007
C,EU-152   ,NO ,   2.016E+00,   1.054E+01,   1.660E+01,,    0.121
C,EU-154   ,NO ,  -5.661E+00,   6.624E+00,   1.076E+01,,   -0.526
C,RA-226   ,NO ,   1.531E+01,   8.534E+01,   1.432E+02,,    0.107
C,AC-228   ,NO ,  -7.090E-01,   1.247E+01,   2.174E+01,,   -0.033
C,TH-232   ,NO ,  -7.083E-01,   1.246E+01,   2.172E+01,,   -0.033
C,U-235    ,NO ,  -3.773E+00,   2.485E+01,   4.125E+01,,   -0.091
C,U-238    ,NO ,  -8.242E+01,   3.513E+02,   5.483E+02,,   -0.150
C,AM-241   ,NO ,  -1.397E+01,   3.852E+01,   6.058E+01,,   -0.231
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-AUG-2006 13:09:25.57
TBE14 P-10933A HpGe ********** Aquisition Date/Time: 11-AUG-2006 10:29:12.75

LIMS No., Customer Name, Client ID: L29548-3 WG EX/TMI

Sample ID : 14L29548-3
Sample Type : WG
Quantity : 3.44540E+00 L
Start Channel : 90 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 8-AUG-2006 14:10:00.0
Geometry : 1435L091304
BKGFILE : 14BG072806MT
Real Time : 0 02:40:02.91
Live time : 0 02:40:00.96

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	139.44*	91	323	1.64	280.74	1.67E+00	9.46E-03	36.4	1.35E+00
2	1	198.96*	96	299	1.61	400.30	1.60E+00	9.99E-03	35.0	1.98E+00
3	1	238.56*	42	221	1.61	479.79	1.47E+00	4.32E-03	67.5	1.19E+00
4	1	242.21	159	268	1.46	487.13	1.46E+00	1.66E-02	19.7	
5	1	295.46*	334	244	1.46	594.00	1.29E+00	3.48E-02	11.1	9.20E-01
6	1	352.16*	564	160	1.53	707.73	1.14E+00	5.88E-02	6.3	2.49E+00
7	1	596.60	77	91	0.99	1197.51	7.78E-01	8.04E-03	25.1	1.71E+01
8	1	609.52*	492	136	1.80	1223.38	7.66E-01	5.13E-02	6.9	2.49E+00
9	1	1120.32*	91	56	2.17	2243.70	4.81E-01	9.51E-03	20.4	2.36E+00
10	1	1238.23*	43	34	2.40	2478.63	4.45E-01	4.46E-03	36.6	6.37E-01
11	1	1378.12	41	15	2.28	2757.09	4.10E-01	4.28E-03	24.4	4.99E-01
12	1	1461.22*	24	15	3.04	2922.38	3.93E-01	2.51E-03	61.9	1.18E+00
13	1	1765.96*	95	27	3.17	3527.54	3.43E-01	9.91E-03	16.1	4.03E-01
14	1	1819.04	17	5	2.55	3632.79	3.37E-01	1.74E-03	34.1	9.29E-01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	24	10.67*	3.927E-01	4.697E+01	4.697E+01	123.79
TH-228	238.63	42	44.60*	1.469E+00	5.176E+00	5.191E+00	135.06
	240.98	------	3.95	1.461E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 14L29548-3

Acquisition date : 11-AUG-2006 10:29:12

Total number of lines in spectrum	14	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	2	14.29%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	4.697E+01	4.697E+01	5.815E+01	123.79	
TH-228	1.91Y	1.00	5.176E+00	5.191E+00	7.011E+00	135.06	
		Total Activity :	5.215E+01	5.216E+01			

Grand Total Activity : 5.215E+01 5.216E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 14L29548-3

Acquisition date : 11-AUG-2006 10:29:12

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	139.44	91	323	1.64	280.74	277	8	9.46E-03	72.8	1.67E+00	
1	198.96	96	299	1.61	400.30	396	9	9.99E-03	69.9	1.60E+00	
1	242.21	159	268	1.46	487.13	476	16	1.66E-02	39.4	1.46E+00	
1	295.46	334	244	1.46	594.00	588	12	3.48E-02	22.1	1.29E+00	
1	352.16	564	160	1.53	707.73	703	11	5.88E-02	12.5	1.14E+00	
1	596.60	77	91	0.99	1197.51	1192	11	8.04E-03	50.2	7.78E-01	
1	609.52	492	136	1.80	1223.38	1216	14	5.13E-02	13.9	7.66E-01	
1	1120.32	91	56	2.17	2243.70	2238	13	9.51E-03	40.8	4.81E-01	
1	1238.23	43	34	2.40	2478.63	2471	17	4.46E-03	73.3	4.45E-01	
1	1378.12	41	15	2.28	2757.09	2750	12	4.28E-03	48.9	4.10E-01	
1	1765.96	95	27	3.17	3527.54	3519	15	9.91E-03	32.1	3.43E-01	
1	1819.04	17	5	2.55	3632.79	3627	10	1.74E-03	68.1	3.37E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	14	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	2	14.29%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	4.697E+01	4.697E+01	5.815E+01	123.79	
TH-228	1.91Y	1.00	5.176E+00	5.191E+00	7.011E+00	135.06	
		Total Activity :	5.215E+01	5.216E+01			

Grand Total Activity : 5.215E+01 5.216E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	4.697E+01	5.815E+01	4.564E+01	0.000E+00	1.029
TH-228	5.191E+00	7.011E+00	9.406E+00	0.000E+00	0.552

---- Non-Identified Nuclides ----

Key-Line

Nuclide	Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	3.243E-01		2.620E+01	4.306E+01	0.000E+00	0.008
NA-24	1.125E+01		8.197E+01	1.318E+02	0.000E+00	0.085
CR-51	-7.815E+00		2.751E+01	4.541E+01	0.000E+00	-0.172
MN-54	-9.675E-01		2.965E+00	4.797E+00	0.000E+00	-0.202
CO-57	-2.132E+00		3.263E+00	5.234E+00	0.000E+00	-0.407
CO-58	-7.655E-01		2.961E+00	4.828E+00	0.000E+00	-0.159
FE-59	-2.290E+00		6.230E+00	9.817E+00	0.000E+00	-0.233
CO-60	5.176E-01		3.013E+00	4.985E+00	0.000E+00	0.104
ZN-65	4.613E+00		7.347E+00	1.129E+01	0.000E+00	0.408
SE-75	1.825E+00		4.396E+00	7.163E+00	0.000E+00	0.255
SR-85	-1.267E+00		3.811E+00	6.126E+00	0.000E+00	-0.207
Y-88	-3.013E-01		3.119E+00	5.047E+00	0.000E+00	-0.060
NB-94	1.159E+00		2.987E+00	4.961E+00	0.000E+00	0.234
NB-95	5.339E+00		3.131E+00	5.896E+00	0.000E+00	0.906
ZR-95	4.669E+00		5.205E+00	9.349E+00	0.000E+00	0.499
MO-99	-1.099E+01		4.391E+01	7.209E+01	0.000E+00	-0.152
RU-103	-2.594E+00		3.208E+00	4.958E+00	0.000E+00	-0.523
RU-106	1.816E+01		2.722E+01	4.655E+01	0.000E+00	0.390
AG-110m	-1.172E+00		3.024E+00	4.715E+00	0.000E+00	-0.248
SN-113	-1.319E+00		4.190E+00	6.827E+00	0.000E+00	-0.193
SB-124	-4.369E+00		6.009E+00	4.715E+00	0.000E+00	-0.927
SB-125	2.716E+00		8.691E+00	1.463E+01	0.000E+00	0.186
TE-129M	-2.259E+01		3.525E+01	5.544E+01	0.000E+00	-0.407
I-131	-1.126E+00		3.917E+00	6.412E+00	0.000E+00	-0.176
BA-133	-8.529E-01		5.070E+00	7.247E+00	0.000E+00	-0.118
CS-134	-4.809E-01		3.723E+00	5.141E+00	0.000E+00	-0.094
CS-136	-1.942E+00		3.246E+00	5.112E+00	0.000E+00	-0.380
CS-137	-1.493E+00		3.500E+00	5.445E+00	0.000E+00	-0.274
CE-139	-3.776E-01		3.237E+00	5.242E+00	0.000E+00	-0.072
BA-140	6.567E-02		1.241E+01	2.026E+01	0.000E+00	0.003
LA-140	1.784E+00		4.126E+00	7.214E+00	0.000E+00	0.247
CE-141	-1.128E+00		5.840E+00	9.478E+00	0.000E+00	-0.119
CE-144	2.137E+01		2.668E+01	4.359E+01	0.000E+00	0.490
EU-152	-6.741E+00		9.426E+00	1.512E+01	0.000E+00	-0.446
EU-154	-4.751E+00		6.840E+00	1.095E+01	0.000E+00	-0.434
RA-226	3.209E+01		8.620E+01	1.428E+02	0.000E+00	0.225
AC-228	-4.618E+00		1.214E+01	1.962E+01	0.000E+00	-0.235
TH-232	-4.613E+00		1.213E+01	1.960E+01	0.000E+00	-0.235
U-235	1.271E+01		2.796E+01	4.087E+01	0.000E+00	0.311
U-238	-3.707E+02		3.255E+02	4.693E+02	0.000E+00	-0.790
AM-241	-3.606E+01		4.383E+01	7.145E+01	0.000E+00	-0.505

```
A,14L29548-3        ,08/11/2006 13:09,08/08/2006 14:10,   3.445E+00,L29548-3 WG EX
B,14L29548-3        ,LIBD                ,08/11/2006 09:47,1435L091304
C,K-40     ,YES,    4.697E+01,   5.815E+01,   4.564E+01,,    1.029
C,TH-228   ,YES,    5.191E+00,   7.011E+00,   9.406E+00,,    0.552
C,BE-7     ,NO ,    3.243E-01,   2.620E+01,   4.306E+01,,    0.008
C,NA-24    ,NO ,    1.125E+01,   8.197E+01,   1.318E+02,,    0.085
C,CR-51    ,NO ,   -7.815E+00,   2.751E+01,   4.541E+01,,   -0.172
C,MN-54    ,NO ,   -9.675E-01,   2.965E+00,   4.797E+00,,   -0.202
C,CO-57    ,NO ,   -2.132E+00,   3.263E+00,   5.234E+00,,   -0.407
C,CO-58    ,NO ,   -7.655E-01,   2.961E+00,   4.828E+00,,   -0.159
C,FE-59    ,NO ,   -2.290E+00,   6.230E+00,   9.817E+00,,   -0.233
C,CO-60    ,NO ,    5.176E-01,   3.013E+00,   4.985E+00,,    0.104
C,ZN-65    ,NO ,    4.613E+00,   7.347E+00,   1.129E+01,,    0.408
C,SE-75    ,NO ,    1.825E+00,   4.396E+00,   7.163E+00,,    0.255
C,SR-85    ,NO ,   -1.267E+00,   3.811E+00,   6.126E+00,,   -0.207
C,Y-88     ,NO ,   -3.013E-01,   3.119E+00,   5.047E+00,,   -0.060
C,NB-94    ,NO ,    1.159E+00,   2.987E+00,   4.961E+00,,    0.234
C,NB-95    ,NO ,    5.339E+00,   3.131E+00,   5.896E+00,,    0.906
C,ZR-95    ,NO ,    4.669E+00,   5.205E+00,   9.349E+00,,    0.499
C,MO-99    ,NO ,   -1.099E+01,   4.391E+01,   7.209E+01,,   -0.152
C,RU-103   ,NO ,   -2.594E+00,   3.208E+00,   4.958E+00,,   -0.523
C,RU-106   ,NO ,    1.816E+01,   2.722E+01,   4.655E+01,,    0.390
C,AG-110m  ,NO ,   -1.172E+00,   3.024E+00,   4.715E+00,,   -0.248
C,SN-113   ,NO ,   -1.319E+00,   4.190E+00,   6.827E+00,,   -0.193
C,SB-124   ,NO ,   -4.369E+00,   6.009E+00,   4.715E+00,,   -0.927
C,SB-125   ,NO ,    2.716E+00,   8.691E+00,   1.463E+01,,    0.186
C,TE-129M  ,NO ,   -2.259E+01,   3.525E+01,   5.544E+01,,   -0.407
C,I-131    ,NO ,   -1.126E+00,   3.917E+00,   6.412E+00,,   -0.176
C,BA-133   ,NO ,   -8.529E-01,   5.070E+00,   7.247E+00,,   -0.118
C,CS-134   ,NO ,   -4.809E-01,   3.723E+00,   5.141E+00,,   -0.094
C,CS-136   ,NO ,   -1.942E+00,   3.246E+00,   5.112E+00,,   -0.380
C,CS-137   ,NO ,   -1.493E+00,   3.500E+00,   5.445E+00,,   -0.274
C,CE-139   ,NO ,   -3.776E-01,   3.237E+00,   5.242E+00,,   -0.072
C,BA-140   ,NO ,    6.567E-02,   1.241E+01,   2.026E+01,,    0.003
C,LA-140   ,NO ,    1.784E+00,   4.126E+00,   7.214E+00,,    0.247
C,CE-141   ,NO ,   -1.128E+00,   5.840E+00,   9.478E+00,,   -0.119
C,CE-144   ,NO ,    2.137E+01,   2.668E+01,   4.359E+01,,    0.490
C,EU-152   ,NO ,   -6.741E+00,   9.426E+00,   1.512E+01,,   -0.446
C,EU-154   ,NO ,   -4.751E+00,   6.840E+00,   1.095E+01,,   -0.434
C,RA-226   ,NO ,    3.209E+01,   8.620E+01,   1.428E+02,,    0.225
C,AC-228   ,NO ,   -4.618E+00,   1.214E+01,   1.962E+01,,   -0.235
C,TH-232   ,NO ,   -4.613E+00,   1.213E+01,   1.960E+01,,   -0.235
C,U-235    ,NO ,    1.271E+01,   2.796E+01,   4.087E+01,,    0.311
C,U-238    ,NO ,   -3.707E+02,   3.255E+02,   4.693E+02,,   -0.790
C,AM-241   ,NO ,   -3.606E+01,   4.383E+01,   7.145E+01,,   -0.505
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Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-AUG-2006 13:29:42.01
TBE15 P-10635B HpGe ********** Aquisition Date/Time: 11-AUG-2006 10:53:32.70

LIMS No., Customer Name, Client ID: L29548-4 WG EX/TMI

Sample ID : 15L29548-4
Sample Type : WG
Quantity : 3.08450E+00 L
Start Channel : 40 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 9-AUG-2006 14:30:00.0
Geometry : 153L082604
BKGFILE : 15BG072806MT
Real Time : 0 02:36:01.53
Live time : 0 02:36:00.50

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	295.10*	79	195	1.91	580.45	1.18E+00	8.42E-03	41.6	8.33E-01
2	1	351.59*	124	152	1.26	694.10	1.02E+00	1.32E-02	23.4	6.58E-01
3	1	608.82*	96	80	1.62	1211.50	6.43E-01	1.03E-02	24.0	1.45E+00
4	1	1764.82*	24	18	4.33	3534.36	2.78E-01	2.55E-03	49.1	2.96E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 15L29548-4
Acquisition date : 11-AUG-2006 10:53:32

Total number of lines in spectrum	4	
Number of unidentified lines	4	
Number of lines tentatively identified by NID	0	0.00%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 15L29548-4

Acquisition date : 11-AUG-2006 10:53:32

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	295.10	79	195	1.91	580.45	572	15	8.42E-03	83.3	1.18E+00	
1	351.59	124	152	1.26	694.10	686	13	1.32E-02	46.8	1.02E+00	
1	608.82	96	80	1.62	1211.50	1205	14	1.03E-02	48.1	6.43E-01	
1	1764.82	24	18	4.33	3534.36	3529	18	2.55E-03	98.3	2.78E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 4
Number of unidentified lines 4
Number of lines tentatively identified by NID 0 0.00%
**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	2.040E+00		2.780E+01	4.654E+01	0.000E+00	0.044
NA-24	-4.536E+00		2.810E+01	4.407E+01	0.000E+00	-0.103
K-40	4.801E+01		5.851E+01	1.201E+02	0.000E+00	0.400
CR-51	-1.835E+00		2.848E+01	4.574E+01	0.000E+00	-0.040
MN-54	-6.272E-01		3.333E+00	5.477E+00	0.000E+00	-0.115
CO-57	2.999E+00		2.896E+00	5.113E+00	0.000E+00	0.587
CO-58	-2.802E-01		3.341E+00	5.307E+00	0.000E+00	-0.053
FE-59	-3.825E+00		6.736E+00	1.024E+01	0.000E+00	-0.373
CO-60	-1.448E+00		3.161E+00	4.668E+00	0.000E+00	-0.310
ZN-65	-1.796E+01		8.570E+00	1.035E+01	0.000E+00	-1.736
SE-75	7.196E-01		4.297E+00	7.078E+00	0.000E+00	0.102
SR-85	-8.050E+00		4.263E+00	6.225E+00	0.000E+00	-1.293
Y-88	-9.647E-01		3.882E+00	6.059E+00	0.000E+00	-0.159
NB-94	-2.061E-01		3.060E+00	4.926E+00	0.000E+00	-0.042
NB-95	1.683E+00		3.610E+00	6.103E+00	0.000E+00	0.276
ZR-95	-1.748E+00		5.947E+00	9.261E+00	0.000E+00	-0.189
MO-99	1.583E+01		4.163E+01	7.004E+01	0.000E+00	0.226
RU-103	-1.285E+00		3.450E+00	5.557E+00	0.000E+00	-0.231
RU-106	-1.887E+00		3.298E+01	5.368E+01	0.000E+00	-0.035
AG-110m	1.179E+00		3.151E+00	5.340E+00	0.000E+00	0.221
SN-113	-3.573E+00		3.748E+00	5.840E+00	0.000E+00	-0.612
SB-124	-1.092E+00		3.871E+00	5.285E+00	0.000E+00	-0.207
SB-125	-1.152E-01		9.674E+00	1.620E+01	0.000E+00	-0.007
TE-129M	-2.473E+00		3.673E+01	6.096E+01	0.000E+00	-0.041

I-131	-1.552E-01	4.073E+00	6.498E+00	0.000E+00	-0.024
BA-133	4.741E+00	5.139E+00	7.856E+00	0.000E+00	0.603
CS-134	1.874E+00	3.731E+00	5.639E+00	0.000E+00	0.332
CS-136	1.987E+00	3.499E+00	6.222E+00	0.000E+00	0.319
CS-137	-1.705E+00	3.593E+00	5.551E+00	0.000E+00	-0.307
CE-139	-1.072E+00	2.961E+00	4.864E+00	0.000E+00	-0.220
BA-140	-6.255E+00	1.382E+01	2.197E+01	0.000E+00	-0.285
LA-140	-3.582E-01	4.050E+00	6.610E+00	0.000E+00	-0.054
CE-141	7.874E-01	5.280E+00	8.928E+00	0.000E+00	0.088
CE-144	1.140E+01	2.270E+01	3.908E+01	0.000E+00	0.292
EU-152	-1.977E+00	1.149E+01	1.581E+01	0.000E+00	-0.125
EU-154	3.777E-01	6.122E+00	1.029E+01	0.000E+00	0.037
RA-226	2.245E+01	8.094E+01	1.373E+02	0.000E+00	0.163
AC-228	-1.937E+00	1.264E+01	2.116E+01	0.000E+00	-0.092
TH-228	-7.391E+00	6.421E+00	1.012E+01	0.000E+00	-0.731
TH-232	-1.935E+00	1.263E+01	2.115E+01	0.000E+00	-0.092
U-235	-1.288E+01	2.426E+01	3.958E+01	0.000E+00	-0.325
U-238	-9.976E+00	3.947E+02	6.682E+02	0.000E+00	-0.015
AM-241	-5.904E+01	3.677E+01	5.487E+01	0.000E+00	-1.076

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A,15L29548-4       ,08/11/2006 13:29,08/09/2006 14:30,   3.085E+00,L29548-4 WG EX
B,15L29548-4       ,LIBD                ,08/11/2006 09:57,153L082604
C,BE-7     ,NO ,   2.040E+00,   2.780E+01,   4.654E+01,,    0.044
C,NA-24    ,NO ,  -4.536E+00,   2.810E+01,   4.407E+01,,   -0.103
C,K-40     ,NO ,   4.801E+01,   5.851E+01,   1.201E+02,,    0.400
C,CR-51    ,NO ,  -1.835E+00,   2.848E+01,   4.574E+01,,   -0.040
C,MN-54    ,NO ,  -6.272E-01,   3.333E+00,   5.477E+00,,   -0.115
C,CO-57    ,NO ,   2.999E+00,   2.896E+00,   5.113E+00,,    0.587
C,CO-58    ,NO ,  -2.802E-01,   3.341E+00,   5.307E+00,,   -0.053
C,FE-59    ,NO ,  -3.825E+00,   6.736E+00,   1.024E+01,,   -0.373
C,CO-60    ,NO ,  -1.448E+00,   3.161E+00,   4.668E+00,,   -0.310
C,ZN-65    ,NO ,  -1.796E+01,   8.570E+00,   1.035E+01,,   -1.736
C,SE-75    ,NO ,   7.196E-01,   4.297E+00,   7.078E+00,,    0.102
C,SR-85    ,NO ,  -8.050E+00,   4.263E+00,   6.225E+00,,   -1.293
C,Y-88     ,NO ,  -9.647E-01,   3.882E+00,   6.059E+00,,   -0.159
C,NB-94    ,NO ,  -2.061E-01,   3.060E+00,   4.926E+00,,   -0.042
C,NB-95    ,NO ,   1.683E+00,   3.610E+00,   6.103E+00,,    0.276
C,ZR-95    ,NO ,  -1.748E+00,   5.947E+00,   9.261E+00,,   -0.189
C,MO-99    ,NO ,   1.583E+01,   4.163E+01,   7.004E+01,,    0.226
C,RU-103   ,NO ,  -1.285E+00,   3.450E+00,   5.557E+00,,   -0.231
C,RU-106   ,NO ,  -1.887E+00,   3.298E+01,   5.368E+01,,   -0.035
C,AG-110m  ,NO ,   1.179E+00,   3.151E+00,   5.340E+00,,    0.221
C,SN-113   ,NO ,  -3.573E+00,   3.748E+00,   5.840E+00,,   -0.612
C,SB-124   ,NO ,  -1.092E+00,   3.871E+00,   5.285E+00,,   -0.207
C,SB-125   ,NO ,  -1.152E-01,   9.674E+00,   1.620E+01,,   -0.007
C,TE-129M  ,NO ,  -2.473E+00,   3.673E+01,   6.096E+01,,   -0.041
C,I-131    ,NO ,  -1.552E-01,   4.073E+00,   6.498E+00,,   -0.024
C,BA-133   ,NO ,   4.741E+00,   5.139E+00,   7.856E+00,,    0.603
C,CS-134   ,NO ,   1.874E+00,   3.731E+00,   5.639E+00,,    0.332
C,CS-136   ,NO ,   1.987E+00,   3.499E+00,   6.222E+00,,    0.319
C,CS-137   ,NO ,  -1.705E+00,   3.593E+00,   5.551E+00,,   -0.307
C,CE-139   ,NO ,  -1.072E+00,   2.961E+00,   4.864E+00,,   -0.220
C,BA-140   ,NO ,  -6.255E+00,   1.382E+01,   2.197E+01,,   -0.285
C,LA-140   ,NO ,  -3.582E-01,   4.050E+00,   6.610E+00,,   -0.054
C,CE-141   ,NO ,   7.874E-01,   5.280E+00,   8.928E+00,,    0.088
C,CE-144   ,NO ,   1.140E+01,   2.270E+01,   3.908E+01,,    0.292
C,EU-152   ,NO ,  -1.977E+00,   1.149E+01,   1.581E+01,,   -0.125
C,EU-154   ,NO ,   3.777E-01,   6.122E+00,   1.029E+01,,    0.037
C,RA-226   ,NO ,   2.245E+01,   8.094E+01,   1.373E+02,,    0.163
C,AC-228   ,NO ,  -1.937E+00,   1.264E+01,   2.116E+01,,   -0.092
C,TH-228   ,NO ,  -7.391E+00,   6.421E+00,   1.012E+01,,   -0.731
C,TH-232   ,NO ,  -1.935E+00,   1.263E+01,   2.115E+01,,   -0.092
C,U-235    ,NO ,  -1.288E+01,   2.426E+01,   3.958E+01,,   -0.325
C,U-238    ,NO ,  -9.976E+00,   3.947E+02,   6.682E+02,,   -0.015
C,AM-241   ,NO ,  -5.904E+01,   3.677E+01,   5.487E+01,,   -1.076
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Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-AUG-2006 13:18:47.80
TBE23 03017322 HpGe ********** Aquisition Date/Time: 11-AUG-2006 11:48:30.95

LIMS No., Customer Name, Client ID: L29548-5 WG EX/TMI

Sample ID : 23L29548-5
Sample Type : WG
Quantity : 3.47650E+00 L
Start Channel : 50 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 9-AUG-2006 10:00:00.0
Geometry : 2335L090704
BKGFILE : 23BG072806MT
Real Time : 0 01:30:03.98
Live time : 0 01:30:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	6	33.74*	49	14	1.31	67.97	9.31E-02	9.11E-03	32.9	4.01E+00
2	6	35.15*	55	59	1.65	70.79	1.16E-01	1.03E-02	46.0	
3	6	37.05*	69	112	1.89	74.57	1.50E-01	1.28E-02	40.3	
4	6	38.91	62	135	1.43	78.29	1.89E-01	1.16E-02	37.6	
5	6	41.48	92	190	1.55	83.42	2.49E-01	1.70E-02	25.8	
6	0	77.58*	112	528	1.00	155.54	1.37E+00	2.08E-02	37.2	
7	0	88.18	151	593	3.56	176.72	1.61E+00	2.80E-02	34.2	
8	0	185.22*	10	428	0.62	370.58	1.95E+00	1.87E-03	419.9	
9	0	197.75	71	232	1.08	395.63	1.90E+00	1.31E-02	39.2	
10	0	241.69	193	250	1.36	483.42	1.71E+00	3.57E-02	16.9	
11	0	295.00*	430	121	0.95	589.96	1.50E+00	7.96E-02	6.7	
12	0	351.75*	667	158	1.25	703.38	1.32E+00	1.24E-01	5.5	
13	0	609.06*	616	72	1.46	1217.81	8.59E-01	1.14E-01	4.7	
14	0	768.21	51	51	1.02	1536.10	7.22E-01	9.37E-03	29.8	
15	0	934.89	75	30	2.43	1869.59	6.27E-01	1.39E-02	21.3	
16	0	1120.38*	144	37	1.67	2240.83	5.52E-01	2.67E-02	12.2	
17	0	1238.70	46	37	2.11	2477.69	5.15E-01	8.45E-03	34.3	
18	0	1377.57	41	8	1.76	2755.78	4.79E-01	7.55E-03	20.8	
19	0	1401.79	19	18	1.90	2804.29	4.73E-01	3.46E-03	55.5	
20	0	1407.98	23	10	1.33	2816.70	4.72E-01	4.26E-03	33.1	
21	0	1460.67*	3	18	1.73	2922.22	4.59E-01	6.02E-04	356.5	
22	0	1729.81	18	8	1.63	3461.48	4.06E-01	3.32E-03	38.9	
23	0	1764.27*	109	7	2.34	3530.54	4.00E-01	2.01E-02	11.1	

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	3	10.67*	4.595E-01	9.539E+00	9.539E+00	713.00
RA-226	186.21	10	3.28*	1.949E+00	2.278E+01	2.278E+01	839.71

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L29548-5

Acquisition date : 11-AUG-2006 11:48:30

Total number of lines in spectrum	23	
Number of unidentified lines	19	
Number of lines tentatively identified by NID	4	17.39%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	9.539E+00	9.539E+00	68.01E+00	713.00	
RA-226	1600.00Y	1.00	2.278E+01	2.278E+01	19.13E+01	839.71	
			---	---			
	Total Activity :		3.232E+01	3.232E+01			

Grand Total Activity : 3.232E+01 3.232E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 23L29548-5

Acquisition date : 11-AUG-2006 11:48:30

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
6	33.74	49	14	1.31	67.97	65	24	9.11E-03	65.8	9.31E-02	
6	35.15	55	59	1.65	70.79	65	24	1.03E-02	91.9	1.16E-01	
6	37.05	69	112	1.89	74.57	65	24	1.28E-02	80.6	1.50E-01	
6	38.91	62	135	1.43	78.29	65	24	1.16E-02	75.1	1.89E-01	
6	41.48	92	190	1.55	83.42	65	24	1.70E-02	51.5	2.49E-01	
0	77.58	112	528	1.00	155.54	150	8	2.08E-02	74.4	1.37E+00	
0	88.18	151	593	3.56	176.72	169	13	2.80E-02	68.5	1.61E+00	
0	197.75	71	232	1.08	395.63	392	8	1.31E-02	78.4	1.90E+00	
0	241.69	193	250	1.36	483.42	480	10	3.57E-02	33.9	1.71E+00	T
0	295.00	430	121	0.95	589.96	585	9	7.96E-02	13.5	1.50E+00	
0	351.75	667	158	1.25	703.38	698	12	1.24E-01	11.0	1.32E+00	
0	609.06	616	72	1.46	1217.81	1212	11	1.14E-01	9.4	8.59E-01	
0	768.21	51	51	1.02	1536.10	1532	10	9.37E-03	59.6	7.22E-01	
0	934.89	75	30	2.43	1869.59	1861	20	1.39E-02	42.6	6.27E-01	
0	1120.38	144	37	1.67	2240.83	2235	13	2.67E-02	24.4	5.52E-01	
0	1238.70	46	37	2.11	2477.69	2471	17	8.45E-03	68.7	5.15E-01	
0	1377.57	41	8	1.76	2755.78	2750	11	7.55E-03	41.5	4.79E-01	
0	1401.79	19	18	1.90	2804.29	2796	15	3.46E-03	****	4.73E-01	
0	1407.98	23	10	1.33	2816.70	2810	10	4.26E-03	66.2	4.72E-01	T
0	1729.81	18	8	1.63	3461.48	3455	11	3.32E-03	77.9	4.06E-01	
0	1764.27	109	7	2.34	3530.54	3523	13	2.01E-02	22.3	4.00E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	23	
Number of unidentified lines	19	
Number of lines tentatively identified by NID	4	17.39%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	9.539E+00	9.539E+00	68.01E+00	713.00	
RA-226	1600.00Y	1.00	2.278E+01	2.278E+01	19.13E+01	839.71	
			---	---			
	Total Activity :		3.232E+01	3.232E+01			

Grand Total Activity : 3.232E+01 3.232E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	9.539E+00	6.801E+01	7.212E+01	0.000E+00	0.132
RA-226	2.278E+01	1.913E+02	1.726E+02	0.000E+00	0.132

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.504E+01		3.051E+01	5.566E+01	0.000E+00	0.270
NA-24	1.122E+01		3.493E+01	6.892E+01	0.000E+00	0.163
CR-51	-5.461E+00		3.403E+01	5.869E+01	0.000E+00	-0.093
MN-54	-8.539E-01		3.536E+00	6.365E+00	0.000E+00	-0.134
CO-57	-1.100E+00		4.526E+00	7.303E+00	0.000E+00	-0.151
CO-58	-2.739E+00		3.733E+00	6.368E+00	0.000E+00	-0.430
FE-59	-8.065E+00		5.896E+00	8.735E+00	0.000E+00	-0.923
CO-60	-5.856E-01		3.325E+00	6.089E+00	0.000E+00	-0.096
ZN-65	2.019E-01		6.690E+00	1.110E+01	0.000E+00	0.018
SE-75	2.219E+00		5.078E+00	9.067E+00	0.000E+00	0.245
SR-85	-7.065E+00		4.248E+00	6.400E+00	0.000E+00	-1.104
Y-88	1.798E+00		3.410E+00	7.180E+00	0.000E+00	0.250
NB-94	4.646E+00		3.627E+00	7.114E+00	0.000E+00	0.653
NB-95	6.430E+00		4.677E+00	8.334E+00	0.000E+00	0.771
ZR-95	-4.321E+00		6.041E+00	9.660E+00	0.000E+00	-0.447
MO-99	-4.196E+00		3.893E+01	6.826E+01	0.000E+00	-0.061
RU-103	2.597E-01		3.692E+00	6.501E+00	0.000E+00	0.040
RU-106	-1.744E+01		3.447E+01	5.714E+01	0.000E+00	-0.305
AG-110m	6.510E-01		3.444E+00	6.175E+00	0.000E+00	0.105
SN-113	1.698E+00		4.561E+00	8.218E+00	0.000E+00	0.207
SB-124	2.219E+00		3.766E+00	6.508E+00	0.000E+00	0.341
SB-125	1.684E+00		1.054E+01	1.866E+01	0.000E+00	0.090
TE-129M	1.072E+01		4.206E+01	7.516E+01	0.000E+00	0.143
I-131	-1.793E+00		4.434E+00	7.529E+00	0.000E+00	-0.238
BA-133	-1.065E+00		5.783E+00	8.706E+00	0.000E+00	-0.122
CS-134	3.220E+00		3.914E+00	6.627E+00	0.000E+00	0.486
CS-136	-1.695E+00		3.631E+00	6.404E+00	0.000E+00	-0.265
CS-137	-2.931E+00		4.145E+00	6.691E+00	0.000E+00	-0.438
CE-139	2.051E+00		4.194E+00	7.448E+00	0.000E+00	0.275
BA-140	-2.790E+00		1.405E+01	2.417E+01	0.000E+00	-0.115
LA-140	-6.468E+00		4.455E+00	6.023E+00	0.000E+00	-1.074
CE-141	2.801E+00		7.587E+00	1.341E+01	0.000E+00	0.209
CE-144	2.820E+01		3.264E+01	5.877E+01	0.000E+00	0.480
EU-152	4.324E+00		1.147E+01	2.052E+01	0.000E+00	0.211
EU-154	-1.806E-01		9.325E+00	1.520E+01	0.000E+00	-0.012
AC-228	3.451E+00		1.250E+01	2.478E+01	0.000E+00	0.139
TH-228	2.361E-01		8.900E+00	1.391E+01	0.000E+00	0.017
TH-232	3.449E+00		1.249E+01	2.476E+01	0.000E+00	0.139
U-235	-3.770E+01		3.392E+01	5.693E+01	0.000E+00	-0.662
U-238	1.385E+02		4.050E+02	7.925E+02	0.000E+00	0.175
AM-241	-5.757E+00		2.491E+01	4.089E+01	0.000E+00	-0.141

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A,23L29548-5        ,08/11/2006 13:18,08/09/2006 10:00,   3.477E+00,L29548-5 WG EX
B,23L29548-5        ,LIBD                  ,08/11/2006 09:57,2335L090704
C,K-40     ,YES,    9.539E+00,   6.801E+01,   7.212E+01,,    0.132
C,RA-226   ,YES,    2.278E+01,   1.913E+02,   1.726E+02,,    0.132
C,BE-7     ,NO ,    1.504E+01,   3.051E+01,   5.566E+01,,    0.270
C,NA-24    ,NO ,    1.122E+01,   3.493E+01,   6.892E+01,,    0.163
C,CR-51    ,NO ,   -5.461E+00,   3.403E+01,   5.869E+01,,   -0.093
C,MN-54    ,NO ,   -8.539E-01,   3.536E+00,   6.365E+00,,   -0.134
C,CO-57    ,NO ,   -1.100E+00,   4.526E+00,   7.303E+00,,   -0.151
C,CO-58    ,NO ,   -2.739E+00,   3.733E+00,   6.368E+00,,   -0.430
C,FE-59    ,NO ,   -8.065E+00,   5.896E+00,   8.735E+00,,   -0.923
C,CO-60    ,NO ,   -5.856E-01,   3.325E+00,   6.089E+00,,   -0.096
C,ZN-65    ,NO ,    2.019E-01,   6.690E+00,   1.110E+01,,    0.018
C,SE-75    ,NO ,    2.219E+00,   5.078E+00,   9.067E+00,,    0.245
C,SR-85    ,NO ,   -7.065E+00,   4.248E+00,   6.400E+00,,   -1.104
C,Y-88     ,NO ,    1.798E+00,   3.410E+00,   7.180E+00,,    0.250
C,NB-94    ,NO ,    4.646E+00,   3.627E+00,   7.114E+00,,    0.653
C,NB-95    ,NO ,    6.430E+00,   4.677E+00,   8.334E+00,,    0.771
C,ZR-95    ,NO ,   -4.321E+00,   6.041E+00,   9.660E+00,,   -0.447
C,MO-99    ,NO ,   -4.196E+00,   3.893E+01,   6.826E+01,,   -0.061
C,RU-103   ,NO ,    2.597E-01,   3.692E+00,   6.501E+00,,    0.040
C,RU-106   ,NO ,   -1.744E+01,   3.447E+01,   5.714E+01,,   -0.305
C,AG-110m  ,NO ,    6.510E-01,   3.444E+00,   6.175E+00,,    0.105
C,SN-113   ,NO ,    1.698E+00,   4.561E+00,   8.218E+00,,    0.207
C,SB-124   ,NO ,    2.219E+00,   3.766E+00,   6.508E+00,,    0.341
C,SB-125   ,NO ,    1.684E+00,   1.054E+01,   1.866E+01,,    0.090
C,TE-129M  ,NO ,    1.072E+01,   4.206E+01,   7.516E+01,,    0.143
C,I-131    ,NO ,   -1.793E+00,   4.434E+00,   7.529E+00,,   -0.238
C,BA-133   ,NO ,   -1.065E+00,   5.783E+00,   8.706E+00,,   -0.122
C,CS-134   ,NO ,    3.220E+00,   3.914E+00,   6.627E+00,,    0.486
C,CS-136   ,NO ,   -1.695E+00,   3.631E+00,   6.404E+00,,   -0.265
C,CS-137   ,NO ,   -2.931E+00,   4.145E+00,   6.691E+00,,   -0.438
C,CE-139   ,NO ,    2.051E+00,   4.194E+00,   7.448E+00,,    0.275
C,BA-140   ,NO ,   -2.790E+00,   1.405E+01,   2.417E+01,,   -0.115
C,LA-140   ,NO ,   -6.468E+00,   4.455E+00,   6.023E+00,,   -1.074
C,CE-141   ,NO ,    2.801E+00,   7.587E+00,   1.341E+01,,    0.209
C,CE-144   ,NO ,    2.820E+01,   3.264E+01,   5.877E+01,,    0.480
C,EU-152   ,NO ,    4.324E+00,   1.147E+01,   2.052E+01,,    0.211
C,EU-154   ,NO ,   -1.806E-01,   9.325E+00,   1.520E+01,,   -0.012
C,AC-228   ,NO ,    3.451E+00,   1.250E+01,   2.478E+01,,    0.139
C,TH-228   ,NO ,    2.361E-01,   8.900E+00,   1.391E+01,,    0.017
C,TH-232   ,NO ,    3.449E+00,   1.249E+01,   2.476E+01,,    0.139
C,U-235    ,NO ,   -3.770E+01,   3.392E+01,   5.693E+01,,   -0.662
C,U-238    ,NO ,    1.385E+02,   4.050E+02,   7.925E+02,,    0.175
C,AM-241   ,NO ,   -5.757E+00,   2.491E+01,   4.089E+01,,   -0.141
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-AUG-2006 13:17:37.46
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 11-AUG-2006 11:48:31.49

LIMS No., Customer Name, Client ID: L29548-6 WG EX/TMI

Sample ID : 07L29548-6
Sample Type : WG
Quantity : 3.47730E+00 L
Start Channel : 40 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 9-AUG-2006 11:45:00.0
Geometry : 0735L090904
BKGFILE : 07BG072806MT
Real Time : 0 01:29:01.97
Live time : 0 01:29:00.46

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	77.13*	169	241	0.78	155.04	1.11E+00	3.17E-02	16.6	1.71E+00
2	2	241.85*	182	150	1.21	485.24	1.80E+00	3.40E-02	13.5	2.23E+00
3	1	294.98*	454	170	1.11	591.71	1.61E+00	8.50E-02	7.4	1.34E+00
4	1	351.69*	771	146	1.13	705.34	1.43E+00	1.44E-01	4.7	1.09E+00
5	1	608.87*	638	61	1.45	1220.43	9.81E-01	1.20E-01	4.8	1.12E+00
6	1	767.73	81	45	1.92	1538.42	8.29E-01	1.51E-02	20.2	1.85E+00
7	1	785.19	50	25	2.33	1573.37	8.16E-01	9.37E-03	23.8	4.16E-01
8	1	933.44	57	29	2.80	1869.96	7.17E-01	1.06E-02	23.6	1.31E+00
9	1	1120.10*	150	28	1.81	2243.26	6.26E-01	2.81E-02	11.4	1.29E+00
10	1	1238.09*	59	17	2.43	2479.11	5.81E-01	1.10E-02	19.6	4.18E-01
11	1	1377.69*	38	16	2.70	2758.06	5.37E-01	7.09E-03	26.5	4.67E-01
12	1	1461.01*	17	11	3.20	2924.51	5.15E-01	3.24E-03	61.4	4.18E-01
13	1	1730.56	30	3	3.36	3462.69	4.60E-01	5.54E-03	22.7	9.24E-01
14	1	1765.27*	132	4	2.30	3531.97	4.54E-01	2.48E-02	9.8	8.80E-01
15	1	1848.16	23	8	2.75	3697.37	4.42E-01	4.40E-03	30.6	3.68E-01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	17	10.67*	5.151E-01	4.587E+01	4.587E+01	122.87

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L29548-6

Acquisition date : 11-AUG-2006 11:48:31

Total number of lines in spectrum	15	
Number of unidentified lines	13	
Number of lines tentatively identified by NID	2	13.33%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	4.587E+01	4.587E+01	5.636E+01	122.87	
		Total Activity :	4.587E+01	4.587E+01			
		Grand Total Activity :	4.587E+01	4.587E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 07L29548-6

Acquisition date : 11-AUG-2006 11:48:31

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	77.13	169	241	0.78	155.04	153	6	3.17E-02	33.3	1.11E+00	
2	241.85	182	150	1.21	485.24	476	15	3.40E-02	27.1	1.80E+00	T
1	294.98	454	170	1.11	591.71	586	11	8.50E-02	14.8	1.61E+00	
1	351.69	771	146	1.13	705.34	700	10	1.44E-01	9.3	1.43E+00	
1	608.87	638	61	1.45	1220.43	1215	12	1.20E-01	9.6	9.81E-01	
1	767.73	81	45	1.92	1538.42	1532	12	1.51E-02	40.3	8.29E-01	
1	785.19	50	25	2.33	1573.37	1568	11	9.37E-03	47.6	8.16E-01	
1	933.44	57	29	2.80	1869.96	1863	13	1.06E-02	47.2	7.17E-01	
1	1120.10	150	28	1.81	2243.26	2236	14	2.81E-02	22.8	6.26E-01	
1	1238.09	59	17	2.43	2479.11	2474	13	1.10E-02	39.1	5.81E-01	
1	1377.69	38	16	2.70	2758.06	2753	11	7.09E-03	53.1	5.37E-01	
1	1730.56	30	3	3.36	3462.69	3456	14	5.54E-03	45.4	4.60E-01	
1	1765.27	132	4	2.30	3531.97	3524	15	2.48E-02	19.5	4.54E-01	
1	1848.16	23	8	2.75	3697.37	3692	11	4.40E-03	61.2	4.42E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	15	
Number of unidentified lines	13	
Number of lines tentatively identified by NID	2	13.33%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	4.587E+01	4.587E+01	5.636E+01	122.87	
		Total Activity :	4.587E+01	4.587E+01			
		Grand Total Activity :	4.587E+01	4.587E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	4.587E+01	5.636E+01	5.776E+01	0.000E+00	0.794

---- Non-Identified Nuclides ----

Key-Line

Nuclide	Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-5.952E+00		3.206E+01	5.116E+01	0.000E+00	-0.116
NA-24	4.664E+00		3.251E+01	5.545E+01	0.000E+00	0.084
CR-51	2.387E+00		3.115E+01	5.188E+01	0.000E+00	0.046
MN-54	3.962E-01		3.421E+00	5.728E+00	0.000E+00	0.069
CO-57	2.350E+00		3.693E+00	6.140E+00	0.000E+00	0.383
CO-58	-3.109E-01		3.198E+00	5.240E+00	0.000E+00	-0.059
FE-59	-2.565E+00		6.547E+00	1.004E+01	0.000E+00	-0.255
CO-60	1.059E+00		2.676E+00	4.793E+00	0.000E+00	0.221
ZN-65	3.661E+00		7.498E+00	1.154E+01	0.000E+00	0.317
SE-75	-4.667E-01		4.525E+00	7.527E+00	0.000E+00	-0.062
SR-85	-1.353E+01		4.554E+00	5.781E+00	0.000E+00	-2.341
Y-88	-7.721E-01		3.040E+00	4.670E+00	0.000E+00	-0.165
NB-94	-1.676E+00		3.285E+00	5.227E+00	0.000E+00	-0.321
NB-95	1.248E+01		4.176E+00	8.131E+00	0.000E+00	1.534
ZR-95	-5.089E+00		5.830E+00	8.773E+00	0.000E+00	-0.580
MO-99	1.897E+01		3.450E+01	6.125E+01	0.000E+00	0.310
RU-103	-1.223E+00		3.455E+00	5.399E+00	0.000E+00	-0.227
RU-106	2.129E+01		3.029E+01	5.424E+01	0.000E+00	0.392
AG-110m	1.052E+00		2.984E+00	5.189E+00	0.000E+00	0.203
SN-113	-2.146E+00		4.746E+00	7.523E+00	0.000E+00	-0.285
SB-124	1.612E+00		4.141E+00	6.053E+00	0.000E+00	0.266
SB-125	3.180E+00		1.023E+01	1.709E+01	0.000E+00	0.186
TE-129M	-1.057E+01		4.348E+01	6.925E+01	0.000E+00	-0.153
I-131	2.485E+00		4.011E+00	6.905E+00	0.000E+00	0.360
BA-133	4.189E+00		4.974E+00	7.825E+00	0.000E+00	0.535
CS-134	3.595E+00		4.056E+00	6.276E+00	0.000E+00	0.573
CS-136	5.328E-01		3.699E+00	6.220E+00	0.000E+00	0.086
CS-137	-4.883E+00		3.473E+00	4.964E+00	0.000E+00	-0.984
CE-139	1.597E+00		3.894E+00	6.324E+00	0.000E+00	0.252
BA-140	7.074E-02		1.344E+01	2.164E+01	0.000E+00	0.003
LA-140	5.944E-01		5.085E+00	8.528E+00	0.000E+00	0.070
CE-141	3.567E+00		6.594E+00	1.084E+01	0.000E+00	0.329
CE-144	1.384E+01		2.945E+01	4.837E+01	0.000E+00	0.286
EU-152	7.022E+00		1.062E+01	1.833E+01	0.000E+00	0.383
EU-154	-9.305E-01		7.913E+00	1.268E+01	0.000E+00	-0.073
RA-226	-1.025E+01		9.840E+01	1.611E+02	0.000E+00	-0.064
AC-228	-5.571E+00		1.230E+01	2.109E+01	0.000E+00	-0.264
TH-228	-9.199E-01		7.839E+00	1.211E+01	0.000E+00	-0.076
TH-232	-5.568E+00		1.229E+01	2.108E+01	0.000E+00	-0.264
U-235	3.233E-01		2.975E+01	4.784E+01	0.000E+00	0.007
U-238	-3.280E+02		3.668E+02	5.277E+02	0.000E+00	-0.621
AM-241	-8.873E+00		3.268E+01	5.330E+01	0.000E+00	-0.166

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A,07L29548-6        ,08/11/2006 13:17,08/09/2006 11:45,   3.477E+00,L29548-6 WG EX
B,07L29548-6        ,LIBD                  ,08/11/2006 09:47,0735L090904
C,K-40     ,YES,   4.587E+01,   5.636E+01,   5.776E+01,,    0.794
C,BE-7     ,NO ,  -5.952E+00,   3.206E+01,   5.116E+01,,   -0.116
C,NA-24    ,NO ,   4.664E+00,   3.251E+01,   5.545E+01,,    0.084
C,CR-51    ,NO ,   2.387E+00,   3.115E+01,   5.188E+01,,    0.046
C,MN-54    ,NO ,   3.962E-01,   3.421E+00,   5.728E+00,,    0.069
C,CO-57    ,NO ,   2.350E+00,   3.693E+00,   6.140E+00,,    0.383
C,CO-58    ,NO ,  -3.109E-01,   3.198E+00,   5.240E+00,,   -0.059
C,FE-59    ,NO ,  -2.565E+00,   6.547E+00,   1.004E+01,,   -0.255
C,CO-60    ,NO ,   1.059E+00,   2.676E+00,   4.793E+00,,    0.221
C,ZN-65    ,NO ,   3.661E+00,   7.498E+00,   1.154E+01,,    0.317
C,SE-75    ,NO ,  -4.667E-01,   4.525E+00,   7.527E+00,,   -0.062
C,SR-85    ,NO ,  -1.353E+01,   4.554E+00,   5.781E+00,,   -2.341
C,Y-88     ,NO ,  -7.721E-01,   3.040E+00,   4.670E+00,,   -0.165
C,NB-94    ,NO ,  -1.676E+00,   3.285E+00,   5.227E+00,,   -0.321
C,NB-95    ,NO ,   1.248E+01,   4.176E+00,   8.131E+00,,    1.534
C,ZR-95    ,NO ,  -5.089E+00,   5.830E+00,   8.773E+00,,   -0.580
C,MO-99    ,NO ,   1.897E+01,   3.450E+01,   6.125E+01,,    0.310
C,RU-103   ,NO ,  -1.223E+00,   3.455E+00,   5.399E+00,,   -0.227
C,RU-106   ,NO ,   2.129E+01,   3.029E+01,   5.424E+01,,    0.392
C,AG-110m  ,NO ,   1.052E+00,   2.984E+00,   5.189E+00,,    0.203
C,SN-113   ,NO ,  -2.146E+00,   4.746E+00,   7.523E+00,,   -0.285
C,SB-124   ,NO ,   1.612E+00,   4.141E+00,   6.053E+00,,    0.266
C,SB-125   ,NO ,   3.180E+00,   1.023E+01,   1.709E+01,,    0.186
C,TE-129M  ,NO ,  -1.057E+01,   4.348E+01,   6.925E+01,,   -0.153
C,I-131    ,NO ,   2.485E+00,   4.011E+00,   6.905E+00,,    0.360
C,BA-133   ,NO ,   4.189E+00,   4.974E+00,   7.825E+00,,    0.535
C,CS-134   ,NO ,   3.595E+00,   4.056E+00,   6.276E+00,,    0.573
C,CS-136   ,NO ,   5.328E-01,   3.699E+00,   6.220E+00,,    0.086
C,CS-137   ,NO ,  -4.883E+00,   3.473E+00,   4.964E+00,,   -0.984
C,CE-139   ,NO ,   1.597E+00,   3.894E+00,   6.324E+00,,    0.252
C,BA-140   ,NO ,   7.074E-02,   1.344E+01,   2.164E+01,,    0.003
C,LA-140   ,NO ,   5.944E-01,   5.085E+00,   8.528E+00,,    0.070
C,CE-141   ,NO ,   3.567E+00,   6.594E+00,   1.084E+01,,    0.329
C,CE-144   ,NO ,   1.384E+01,   2.945E+01,   4.837E+01,,    0.286
C,EU-152   ,NO ,   7.022E+00,   1.062E+01,   1.833E+01,,    0.383
C,EU-154   ,NO ,  -9.305E-01,   7.913E+00,   1.268E+01,,   -0.073
C,RA-226   ,NO ,  -1.025E+01,   9.840E+01,   1.611E+02,,   -0.064
C,AC-228   ,NO ,  -5.571E+00,   1.230E+01,   2.109E+01,,   -0.264
C,TH-228   ,NO ,  -9.199E-01,   7.839E+00,   1.211E+01,,   -0.076
C,TH-232   ,NO ,  -5.568E+00,   1.229E+01,   2.108E+01,,   -0.264
C,U-235    ,NO ,   3.233E-01,   2.975E+01,   4.784E+01,,    0.007
C,U-238    ,NO ,  -3.280E+02,   3.668E+02,   5.277E+02,,   -0.621
C,AM-241   ,NO ,  -8.873E+00,   3.268E+01,   5.330E+01,,   -0.166
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Sec. Review: Analyst: LIMS:

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-AUG-2006 14:23:32.43
TBE04 P-40312B HpGe ********** Aquisition Date/Time: 11-AUG-2006 12:11:20.75

LIMS No., Customer Name, Client ID: L29548-7 WG EX/TMI

Sample ID : 04L29548-7
Sample Type : WG
Quantity : 3.48460E+00 L
Start Channel : 90 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 9-AUG-2006 13:00:00.0
Geometry : 0435L090804
BKGFILE : 04BG072806MT
Real Time : 0 02:12:04.86
Live time : 0 02:12:02.74

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	2	74.72*	168	429	1.15	150.40	9.17E-01	2.12E-02	23.2	3.01E+00
2	2	76.89*	244	306	0.87	154.75	9.84E-01	3.08E-02	13.0	
3	1	87.06*	68	347	0.83	175.12	1.26E+00	8.62E-03	45.6	4.57E+00
4	1	198.63*	58	237	1.31	398.46	1.68E+00	7.26E-03	47.2	3.01E+00
5	4	238.56*	72	251	1.74	478.37	1.52E+00	9.12E-03	40.7	4.98E-01
6	4	241.78	315	204	1.14	484.82	1.51E+00	3.97E-02	9.5	
7	1	295.00*	616	217	1.00	591.32	1.32E+00	7.78E-02	6.1	1.12E+00
8	1	351.72*	1134	214	1.17	704.84	1.17E+00	1.43E-01	4.0	1.44E+00
9	1	608.98*	950	53	1.39	1219.51	7.73E-01	1.20E-01	3.7	9.08E-01
10	1	768.17	70	72	1.64	1537.85	6.46E-01	8.80E-03	27.6	1.30E+00
11	1	933.32	66	27	2.25	1868.02	5.55E-01	8.29E-03	20.4	1.48E+00
12	1	1120.14*	186	68	1.68	2241.41	4.81E-01	2.35E-02	13.3	1.18E+00
13	1	1237.97*	76	42	2.07	2476.85	4.45E-01	9.60E-03	22.8	3.16E-01
14	1	1281.22	24	26	1.99	2563.25	4.33E-01	2.98E-03	48.2	6.02E-01
15	1	1377.59	38	49	2.27	2755.74	4.10E-01	4.83E-03	43.8	2.07E+00
16	1	1407.69	46	15	3.05	2815.85	4.03E-01	5.76E-03	22.2	1.55E+00
17	1	1508.90	49	12	3.17	3017.99	3.83E-01	6.16E-03	19.7	4.03E-01
18	1	1730.40	38	18	3.77	3460.20	3.48E-01	4.77E-03	28.8	1.08E+00
19	1	1764.58*	173	4	2.40	3528.44	3.43E-01	2.19E-02	8.4	8.87E-01

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
TH-228	238.63	72	44.60*	1.520E+00	1.043E+01	1.045E+01	81.32
	240.98	315	3.95	1.508E+00	5.172E+02	5.182E+02	18.95

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 04L29548-7

Acquisition date : 11-AUG-2006 12:11:20

Total number of lines in spectrum	19	
Number of unidentified lines	16	
Number of lines tentatively identified by NID	3	15.79%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TH-228	1.91Y	1.00	1.043E+01	1.045E+01	0.850E+01	81.32	
			---	---			
	Total Activity :		1.043E+01	1.045E+01			

Grand Total Activity : 1.043E+01 1.045E+01

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Sample ID : 04L29548-7

Acquisition date : 11-AUG-2006 12:11:20

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	74.72	168	429	1.15	150.40	144	15	2.12E-02	46.4	9.17E-01	
2	76.89	244	306	0.87	154.75	144	15	3.08E-02	25.9	9.84E-01	
1	87.06	68	347	0.83	175.12	173	6	8.62E-03	91.1	1.26E+00	
1	198.63	58	237	1.31	398.46	396	7	7.26E-03	94.4	1.68E+00	
1	295.00	616	217	1.00	591.32	586	10	7.78E-02	12.1	1.32E+00	
1	351.72	1134	214	1.17	704.84	700	12	1.43E-01	8.0	1.17E+00	
1	608.98	950	53	1.39	1219.51	1214	12	1.20E-01	7.3	7.73E-01	
1	768.17	70	72	1.64	1537.85	1532	13	8.80E-03	55.3	6.46E-01	
1	933.32	66	27	2.25	1868.02	1861	12	8.29E-03	40.7	5.55E-01	
1	1120.14	186	68	1.68	2241.41	2232	20	2.35E-02	26.6	4.81E-01	
1	1237.97	76	42	2.07	2476.85	2470	16	9.60E-03	45.7	4.45E-01	
1	1281.22	24	26	1.99	2563.25	2556	12	2.98E-03	96.5	4.33E-01	
1	1377.59	38	49	2.27	2755.74	2749	16	4.83E-03	87.7	4.10E-01	
1	1407.69	46	15	3.05	2815.85	2810	12	5.76E-03	44.5	4.03E-01	T
1	1508.90	49	12	3.17	3017.99	3012	12	6.16E-03	39.3	3.83E-01	
1	1730.40	38	18	3.77	3460.20	3453	15	4.77E-03	57.6	3.48E-01	
1	1764.58	173	4	2.40	3528.44	3521	15	2.19E-02	16.7	3.43E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	19	
Number of unidentified lines	16	
Number of lines tentatively identified by NID	3	15.79%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
TH-228	1.91Y	1.00	1.043E+01	1.045E+01	0.850E+01	81.32	
		Total Activity :	1.043E+01	1.045E+01			
		Grand Total Activity :	1.043E+01	1.045E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
TH-228	1.045E+01	8.501E+00	9.929E+00	0.000E+00	1.053

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	4.473E+00		2.807E+01	4.604E+01	0.000E+00	0.097
NA-24	-2.063E+01		3.435E+01	5.093E+01	0.000E+00	-0.405
K-40	-7.010E+00		4.611E+01	8.700E+01	0.000E+00	-0.081
CR-51	-1.485E+00		2.760E+01	4.574E+01	0.000E+00	-0.032
MN-54	-3.322E+00		3.441E+00	5.127E+00	0.000E+00	-0.648
CO-57	-5.786E-01		3.400E+00	5.499E+00	0.000E+00	-0.105
CO-58	-3.946E+00		3.527E+00	5.197E+00	0.000E+00	-0.759
FE-59	1.586E+00		6.773E+00	1.121E+01	0.000E+00	0.141
CO-60	-1.795E+00		3.812E+00	6.414E+00	0.000E+00	-0.280
ZN-65	4.468E+00		8.157E+00	1.237E+01	0.000E+00	0.361
SE-75	-3.438E-01		4.535E+00	7.594E+00	0.000E+00	-0.045
SR-85	-8.477E+00		3.856E+00	5.266E+00	0.000E+00	-1.610
Y-88	3.596E+00		3.489E+00	6.617E+00	0.000E+00	0.543
NB-94	-5.191E-01		3.064E+00	5.032E+00	0.000E+00	-0.103
NB-95	7.212E+00		3.920E+00	6.832E+00	0.000E+00	1.056
ZR-95	-7.981E-01		5.359E+00	8.756E+00	0.000E+00	-0.091
MO-99	-7.998E-01		3.575E+01	5.925E+01	0.000E+00	-0.013
RU-103	-2.380E+00		3.224E+00	4.876E+00	0.000E+00	-0.488
RU-106	-1.384E+01		2.739E+01	4.396E+01	0.000E+00	-0.315
AG-110m	1.406E+00		3.088E+00	5.370E+00	0.000E+00	0.262
SN-113	-4.674E+00		4.487E+00	6.863E+00	0.000E+00	-0.681
SB-124	2.736E+00		3.382E+00	5.600E+00	0.000E+00	0.489
SB-125	-1.368E+00		9.417E+00	1.521E+01	0.000E+00	-0.090
TE-129M	-1.561E+01		3.822E+01	6.013E+01	0.000E+00	-0.260
I-131	-3.089E+00		3.795E+00	5.915E+00	0.000E+00	-0.522
BA-133	-3.231E+00		5.173E+00	7.088E+00	0.000E+00	-0.456
CS-134	1.934E+00		3.407E+00	5.317E+00	0.000E+00	0.364
CS-136	1.602E-01		3.602E+00	5.966E+00	0.000E+00	0.027
CS-137	-1.399E+00		3.625E+00	5.877E+00	0.000E+00	-0.238
CE-139	-2.119E+00		3.567E+00	5.574E+00	0.000E+00	-0.380
BA-140	-1.003E+01		1.286E+01	1.920E+01	0.000E+00	-0.523
LA-140	7.100E-01		4.292E+00	7.191E+00	0.000E+00	0.099
CE-141	-7.945E-03		6.146E+00	9.924E+00	0.000E+00	-0.001
CE-144	-2.123E+01		2.737E+01	4.303E+01	0.000E+00	-0.493
EU-152	8.406E+00		1.068E+01	1.845E+01	0.000E+00	0.456
EU-154	4.754E+00		7.030E+00	1.175E+01	0.000E+00	0.404
RA-226	4.545E+01		9.039E+01	1.495E+02	0.000E+00	0.304
AC-228	-1.664E+00		1.266E+01	2.130E+01	0.000E+00	-0.078
TH-232	-1.663E+00		1.265E+01	2.129E+01	0.000E+00	-0.078
U-235	-2.056E+01		2.785E+01	4.367E+01	0.000E+00	-0.471
U-238	-2.400E+01		3.541E+02	5.702E+02	0.000E+00	-0.042
AM-241	2.284E+01		3.091E+01	5.326E+01	0.000E+00	0.429

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A,04L29548-7        ,08/11/2006 14:23,08/09/2006 13:00,   3.485E+00,L29548-7 WG EX
B,04L29548-7        ,LIBD                ,08/11/2006 09:46,0435L090804
C,TH-228   ,YES,   1.045E+01,   8.501E+00,   9.929E+00,,    1.053
C,BE-7     ,NO ,   4.473E+00,   2.807E+01,   4.604E+01,,    0.097
C,NA-24    ,NO ,  -2.063E+01,   3.435E+01,   5.093E+01,,   -0.405
C,K-40     ,NO ,  -7.010E+00,   4.611E+01,   8.700E+01,,   -0.081
C,CR-51    ,NO ,  -1.485E+00,   2.760E+01,   4.574E+01,,   -0.032
C,MN-54    ,NO ,  -3.322E+00,   3.441E+00,   5.127E+00,,   -0.648
C,CO-57    ,NO ,  -5.786E-01,   3.400E+00,   5.499E+00,,   -0.105
C,CO-58    ,NO ,  -3.946E+00,   3.527E+00,   5.197E+00,,   -0.759
C,FE-59    ,NO ,   1.586E+00,   6.773E+00,   1.121E+01,,    0.141
C,CO-60    ,NO ,  -1.795E+00,   3.812E+00,   6.414E+00,,   -0.280
C,ZN-65    ,NO ,   4.468E+00,   8.157E+00,   1.237E+01,,    0.361
C,SE-75    ,NO ,  -3.438E-01,   4.535E+00,   7.594E+00,,   -0.045
C,SR-85    ,NO ,  -8.477E+00,   3.856E+00,   5.266E+00,,   -1.610
C,Y-88     ,NO ,   3.596E+00,   3.489E+00,   6.617E+00,,    0.543
C,NB-94    ,NO ,  -5.191E-01,   3.064E+00,   5.032E+00,,   -0.103
C,NB-95    ,NO ,   7.212E+00,   3.920E+00,   6.832E+00,,    1.056
C,ZR-95    ,NO ,  -7.981E-01,   5.359E+00,   8.756E+00,,   -0.091
C,MO-99    ,NO ,  -7.998E-01,   3.575E+01,   5.925E+01,,   -0.013
C,RU-103   ,NO ,  -2.380E+00,   3.224E+00,   4.876E+00,,   -0.488
C,RU-106   ,NO ,  -1.384E+01,   2.739E+01,   4.396E+01,,   -0.315
C,AG-110m  ,NO ,   1.406E+00,   3.088E+00,   5.370E+00,,    0.262
C,SN-113   ,NO ,  -4.674E+00,   4.487E+00,   6.863E+00,,   -0.681
C,SB-124   ,NO ,   2.736E+00,   3.382E+00,   5.600E+00,,    0.489
C,SB-125   ,NO ,  -1.368E+00,   9.417E+00,   1.521E+01,,   -0.090
C,TE-129M  ,NO ,  -1.561E+01,   3.822E+01,   6.013E+01,,   -0.260
C,I-131    ,NO ,  -3.089E+00,   3.795E+00,   5.915E+00,,   -0.522
C,BA-133   ,NO ,  -3.231E+00,   5.173E+00,   7.088E+00,,   -0.456
C,CS-134   ,NO ,   1.934E+00,   3.407E+00,   5.317E+00,,    0.364
C,CS-136   ,NO ,   1.602E-01,   3.602E+00,   5.966E+00,,    0.027
C,CS-137   ,NO ,  -1.399E+00,   3.625E+00,   5.877E+00,,   -0.238
C,CE-139   ,NO ,  -2.119E+00,   3.567E+00,   5.574E+00,,   -0.380
C,BA-140   ,NO ,  -1.003E+01,   1.286E+01,   1.920E+01,,   -0.523
C,LA-140   ,NO ,   7.100E-01,   4.292E+00,   7.191E+00,,    0.099
C,CE-141   ,NO ,  -7.945E-03,   6.146E+00,   9.924E+00,,   -0.001
C,CE-144   ,NO ,  -2.123E+01,   2.737E+01,   4.303E+01,,   -0.493
C,EU-152   ,NO ,   8.406E+00,   1.068E+01,   1.845E+01,,    0.456
C,EU-154   ,NO ,   4.754E+00,   7.030E+00,   1.175E+01,,    0.404
C,RA-226   ,NO ,   4.545E+01,   9.039E+01,   1.495E+02,,    0.304
C,AC-228   ,NO ,  -1.664E+00,   1.266E+01,   2.130E+01,,   -0.078
C,TH-232   ,NO ,  -1.663E+00,   1.265E+01,   2.129E+01,,   -0.078
C,U-235    ,NO ,  -2.056E+01,   2.785E+01,   4.367E+01,,   -0.471
C,U-238    ,NO ,  -2.400E+01,   3.541E+02,   5.702E+02,,   -0.042
C,AM-241   ,NO ,   2.284E+01,   3.091E+01,   5.326E+01,,    0.429
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 11-AUG-2006 13:56:07.52
TBE10 12892256 HpGe ********** Aquisition Date/Time: 11-AUG-2006 12:11:23.04

LIMS No., Customer Name, Client ID: L29548-8 WG EX/TMI

Sample ID : 10L29548-8
Sample Type : WG
Quantity : 3.44870E+00 L
Start Channel : 80 Energy Tol : 1.00000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 9-AUG-2006 13:30:00.0
Geometry : 1035L091004
BKGFILE : 10BG072806MT
Real Time : 0 01:44:32.66
Live time : 0 01:44:31.49

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	242.11	43	127	0.95	483.96	1.39E+00	6.82E-03	46.3	8.59E-01
2	1	295.19*	99	108	1.93	590.21	1.21E+00	1.59E-02	23.7	3.29E+00
3	1	352.17*	178	112	1.52	704.27	1.06E+00	2.83E-02	15.0	3.43E+00
4	1	583.44*	8	42	2.10	1167.25	7.18E-01	1.23E-03	170.4	2.49E+00
5	1	609.21*	161	60	1.37	1218.85	6.94E-01	2.57E-02	12.8	8.71E-01
6	1	1120.71*	29	25	2.62	2242.92	4.33E-01	4.56E-03	39.7	2.51E+00
7	1	1461.03*	4	10	3.92	2924.35	3.56E-01	7.13E-04	227.6	1.16E+00
8	1	1765.34*	46	16	5.56	3533.74	3.13E-01	7.35E-03	25.4	4.52E+00

Flag: "*" = Peak area was modified by background subtraction

Nuclide Line Activity Report

Nuclide Type: natural

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
K-40	1460.81	4	10.67*	3.559E-01	1.471E+01	1.471E+01	455.12

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L29548-8

Acquisition date : 11-AUG-2006 12:11:23

Total number of lines in spectrum	8	
Number of unidentified lines	6	
Number of lines tentatively identified by NID	2	25.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.471E+01	1.471E+01	6.696E+01	455.12	
		Total Activity :	1.471E+01	1.471E+01			
		Grand Total Activity :	1.471E+01	1.471E+01			

Flags: "K" = Keyline not found
"E" = Manually edited
"M" = Manually accepted
"A" = Nuclide specific abn. limit

Unidentified Energy Lines
Page : 3
Sample ID : 10L29548-8
Acquisition date : 11-AUG-2006 12:11:23

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	242.11	43	127	0.95	483.96	481	7	6.82E-03	92.6	1.39E+00	
1	295.19	99	108	1.93	590.21	584	12	1.59E-02	47.3	1.21E+00	
1	352.17	178	112	1.52	704.27	698	13	2.83E-02	30.0	1.06E+00	
1	583.44	8	42	2.10	1167.25	1163	11	1.23E-03	****	7.18E-01	T
1	609.21	161	60	1.37	1218.85	1214	12	2.57E-02	25.6	6.94E-01	
1	1120.71	29	25	2.62	2242.92	2238	11	4.56E-03	79.4	4.33E-01	
1	1765.34	46	16	5.56	3533.74	3526	18	7.35E-03	50.8	3.13E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	8	
Number of unidentified lines	6	
Number of lines tentatively identified by NID	2	25.00%

Nuclide Type : natural

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.00	1.471E+01	1.471E+01	6.696E+01	455.12	
			---	---			
	Total Activity :		1.471E+01	1.471E+01			
	Grand Total Activity :		1.471E+01	1.471E+01			

Flags: "K" = Keyline not found "M" = Manually accepted
"E" = Manually edited "A" = Nuclide specific abn. limit

Interference Report

No interference correction performed

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	1.471E+01	6.696E+01	4.516E+01	0.000E+00	0.326

---- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.053E+01		2.912E+01	4.878E+01	0.000E+00	0.216
NA-24	-1.472E+00		3.214E+01	5.144E+01	0.000E+00	-0.029
CR-51	4.942E+00		2.917E+01	4.851E+01	0.000E+00	0.102
MN-54	1.238E+00		3.288E+00	5.732E+00	0.000E+00	0.216

CO-57	2.200E-01	3.441E+00	5.838E+00	0.000E+00	0.038
CO-58	-2.455E+00	2.977E+00	4.305E+00	0.000E+00	-0.570
FE-59	-1.253E+00	6.635E+00	1.053E+01	0.000E+00	-0.119
CO-60	4.213E-01	3.020E+00	5.041E+00	0.000E+00	0.084
ZN-65	3.904E-01	8.174E+00	1.169E+01	0.000E+00	0.033
SE-75	-1.445E+00	4.891E+00	7.926E+00	0.000E+00	-0.182
SR-85	-7.421E+00	4.486E+00	6.200E+00	0.000E+00	-1.197
Y-88	-1.192E-01	2.519E+00	4.119E+00	0.000E+00	-0.029
NB-94	1.669E+00	3.344E+00	5.905E+00	0.000E+00	0.283
NB-95	-2.559E+00	3.461E+00	5.236E+00	0.000E+00	-0.489
ZR-95	-5.596E-01	5.019E+00	8.239E+00	0.000E+00	-0.068
MO-99	-3.021E+01	3.233E+01	4.546E+01	0.000E+00	-0.664
RU-103	-1.870E+00	3.733E+00	5.691E+00	0.000E+00	-0.329
RU-106	3.174E+00	2.738E+01	4.678E+01	0.000E+00	0.068
AG-110m	-1.736E+00	3.047E+00	4.752E+00	0.000E+00	-0.365
SN-113	2.501E-02	4.334E+00	7.058E+00	0.000E+00	0.004
SB-124	1.194E+00	3.627E+00	5.817E+00	0.000E+00	0.205
SB-125	2.163E+00	9.326E+00	1.549E+01	0.000E+00	0.140
TE-129M	-1.062E+01	3.919E+01	6.149E+01	0.000E+00	-0.173
I-131	-2.936E+00	3.873E+00	5.857E+00	0.000E+00	-0.501
BA-133	-2.540E+00	5.385E+00	7.256E+00	0.000E+00	-0.350
CS-134	-1.835E+00	4.365E+00	5.666E+00	0.000E+00	-0.324
CS-136	-5.224E-01	3.230E+00	5.239E+00	0.000E+00	-0.100
CS-137	-5.834E-01	3.710E+00	6.122E+00	0.000E+00	-0.095
CE-139	8.173E-01	3.687E+00	6.249E+00	0.000E+00	0.131
BA-140	4.158E+00	1.239E+01	2.072E+01	0.000E+00	0.201
LA-140	9.916E-01	4.697E+00	8.146E+00	0.000E+00	0.122
CE-141	-1.006E-01	6.123E+00	1.030E+01	0.000E+00	-0.010
CE-144	9.588E+00	2.600E+01	4.464E+01	0.000E+00	0.215
EU-152	-8.246E-01	1.075E+01	1.748E+01	0.000E+00	-0.047
EU-154	4.532E+00	7.128E+00	1.241E+01	0.000E+00	0.365
RA-226	-5.912E+01	9.184E+01	1.528E+02	0.000E+00	-0.387
AC-228	-2.204E+00	1.218E+01	2.114E+01	0.000E+00	-0.104
TH-228	1.544E+00	7.883E+00	1.213E+01	0.000E+00	0.127
TH-232	-2.202E+00	1.217E+01	2.112E+01	0.000E+00	-0.104
U-235	-1.800E+01	2.807E+01	4.587E+01	0.000E+00	-0.392
U-238	1.039E+02	3.432E+02	5.926E+02	0.000E+00	0.175
AM-241	6.528E+00	3.044E+01	4.935E+01	0.000E+00	0.132

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A,10L29548-8       ,08/11/2006 13:56,08/09/2006 13:30,   3.449E+00,L29548-8 WG EX
B,10L29548-8       ,LIBD                ,08/11/2006 09:47,1035L091004
C,K-40     ,YES,   1.471E+01,   6.696E+01,   4.516E+01,,    0.326
C,BE-7     ,NO ,   1.053E+01,   2.912E+01,   4.878E+01,,    0.216
C,NA-24    ,NO ,  -1.472E+00,   3.214E+01,   5.144E+01,,   -0.029
C,CR-51    ,NO ,   4.942E+00,   2.917E+01,   4.851E+01,,    0.102
C,MN-54    ,NO ,   1.238E+00,   3.288E+00,   5.732E+00,,    0.216
C,CO-57    ,NO ,   2.200E-01,   3.441E+00,   5.838E+00,,    0.038
C,CO-58    ,NO ,  -2.455E+00,   2.977E+00,   4.305E+00,,   -0.570
C,FE-59    ,NO ,  -1.253E+00,   6.635E+00,   1.053E+01,,   -0.119
C,CO-60    ,NO ,   4.213E-01,   3.020E+00,   5.041E+00,,    0.084
C,ZN-65    ,NO ,   3.904E-01,   8.174E+00,   1.169E+01,,    0.033
C,SE-75    ,NO ,  -1.445E+00,   4.891E+00,   7.926E+00,,   -0.182
C,SR-85    ,NO ,  -7.421E+00,   4.486E+00,   6.200E+00,,   -1.197
C,Y-88     ,NO ,  -1.192E-01,   2.519E+00,   4.119E+00,,   -0.029
C,NB-94    ,NO ,   1.669E+00,   3.344E+00,   5.905E+00,,    0.283
C,NB-95    ,NO ,  -2.559E+00,   3.461E+00,   5.236E+00,,   -0.489
C,ZR-95    ,NO ,  -5.596E-01,   5.019E+00,   8.239E+00,,   -0.068
C,MO-99    ,NO ,  -3.021E+01,   3.233E+01,   4.546E+01,,   -0.664
C,RU-103   ,NO ,  -1.870E+00,   3.733E+00,   5.691E+00,,   -0.329
C,RU-106   ,NO ,   3.174E+00,   2.738E+01,   4.678E+01,,    0.068
C,AG-110m  ,NO ,  -1.736E+00,   3.047E+00,   4.752E+00,,   -0.365
C,SN-113   ,NO ,   2.501E-02,   4.334E+00,   7.058E+00,,    0.004
C,SB-124   ,NO ,   1.194E+00,   3.627E+00,   5.817E+00,,    0.205
C,SB-125   ,NO ,   2.163E+00,   9.326E+00,   1.549E+01,,    0.140
C,TE-129M  ,NO ,  -1.062E+01,   3.919E+01,   6.149E+01,,   -0.173
C,I-131    ,NO ,  -2.936E+00,   3.873E+00,   5.857E+00,,   -0.501
C,BA-133   ,NO ,  -2.540E+00,   5.385E+00,   7.256E+00,,   -0.350
C,CS-134   ,NO ,  -1.835E+00,   4.365E+00,   5.666E+00,,   -0.324
C,CS-136   ,NO ,  -5.224E-01,   3.230E+00,   5.239E+00,,   -0.100
C,CS-137   ,NO ,  -5.834E-01,   3.710E+00,   6.122E+00,,   -0.095
C,CE-139   ,NO ,   8.173E-01,   3.687E+00,   6.249E+00,,    0.131
C,BA-140   ,NO ,   4.158E+00,   1.239E+01,   2.072E+01,,    0.201
C,LA-140   ,NO ,   9.916E-01,   4.697E+00,   8.146E+00,,    0.122
C,CE-141   ,NO ,  -1.006E-01,   6.123E+00,   1.030E+01,,   -0.010
C,CE-144   ,NO ,   9.588E+00,   2.600E+01,   4.464E+01,,    0.215
C,EU-152   ,NO ,  -8.246E-01,   1.075E+01,   1.748E+01,,   -0.047
C,EU-154   ,NO ,   4.532E+00,   7.128E+00,   1.241E+01,,    0.365
C,RA-226   ,NO ,  -5.912E+01,   9.184E+01,   1.528E+02,,   -0.387
C,AC-228   ,NO ,  -2.204E+00,   1.218E+01,   2.114E+01,,   -0.104
C,TH-228   ,NO ,   1.544E+00,   7.883E+00,   1.213E+01,,    0.127
C,TH-232   ,NO ,  -2.202E+00,   1.217E+01,   2.112E+01,,   -0.104
C,U-235    ,NO ,  -1.800E+01,   2.807E+01,   4.587E+01,,   -0.392
C,U-238    ,NO ,   1.039E+02,   3.432E+02,   5.926E+02,,    0.175
C,AM-241   ,NO ,   6.528E+00,   3.044E+01,   4.935E+01,,    0.132
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APPENDIX F

DATA VALIDATION MEMORANDUM

CONESTOGA-ROVERS & ASSOCIATES

45 Farmington Valley Drive
Plainville, Connecticut 06062
Telephone: (860) 747-1800 Fax: (860) 747-1900
www.CRAworld.com

MEMORANDUM

TO: Steve Quigley

REF. NO.: 45136-29

FROM: Kathy Shaw/ks/8/CT

DATE: June 29, 2006

Revision Date: August 29, 2006

RE: Data Quality Assessment and Verification
Fleetwide Assessment - Hydrogeologic Investigation
Three Mile Island Generating Station – Middletown, Pennsylvania

This memorandum details a data verification of the radiochemical data resulting from the collection of 58groundwater, three (3) surface water and 18 quality control samples from the Three Mile Island Generating Station in Middletown, Pennsylvania. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at Teledyne Brown Engineering in Knoxville, Tennessee (TBE) in accordance with the methodologies presented in Table 2. The quality control criteria used to assess the data were established by the methods.[1]

Sample Quantitation

The laboratory reported several radionuclides with activity concentrations above the minimum detectable concentration (MDC) and greater than the three (3) sigma critical level (99% confidence interval), but qualified them as not detected due to the presence of interference preventing identification of the major peaks, with a U* flag. Based on the laboratory qualification definition these concentrations should be qualified as not-detected (U*) above the laboratory reported MDC.

Sample Preservation

Samples collected for gamma scan and total strontium analyses are to be preserved to a pH of less than or equal to two (2) during shipment and laboratory storage with nitric acid at the time of collection. The samples were shipped and maintained in accordance with the sample preservation requirements.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by concurrent preparation and analysis of method blank samples. The method blank samples were reported to be free of radioactive material contamination produced by the laboratory conditions or procedures.

[1] PRESCRIBED PROCEDURE FOR MEASUREMENT OF RADIOACTIVITY IN DRINKING WATER EPA-600/4-80-032

Laboratory Control Sample Analysis

The laboratory control sample (LCS) is a sample containing a known amount of a radionuclide that is equivalent to internal or external control samples prepared by the analytical laboratory or a Federal/State agency. The LCS percent recoveries were within the laboratory or agency control limits, indicating that an acceptable level of overall performance was achieved.

Duplicate Sample Analyses

The laboratory precision of matrix-specific measurement system was monitored by the analyses of duplicate samples. The duplicate relative percent difference (RPD) data were within the acceptance criteria. No targeted analytes were reported as detected in the laboratory duplicate sample sets.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of Seven (7) field duplicate sample sets and 11 rinsate blank samples.

To assess the efficiency of field decontamination procedures and cleanliness of sample containers, the rinsate samples identified in Table 1 were collected and analyzed. The samples that should be qualified due to rinsate blank contamination are summarized in Table 3. No additional target radionuclides were reported as detected in the rinsate samples.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. Table 4 summarizes the results of the detected analytes in the field duplicate sample set. The data indicate that an adequate level of precision was achieved for the sampling event.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

SAMPLE KEY
FLEETWIDE ASSESSMENT
THREE MILE ISLAND GENERATING STATION
MIDDLETOWN, PENNSYLVANIA

Sample Location	*Sample Identification*	*QC Sample*	*Sample Date*	*Sample Time*	*Matrix*	*Analyses*
MW-4	WG-TMI-MW-4-052606-JAS-001		5/26/2006	11:20	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-2	WG-TMI-MW-2-052606-JC-002		5/26/2006	11:25	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-3	WG-TMI-MW-3-052606-JC-003		5/26/2006	12:35	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-1	WG-TMI-MW-1-052606-JC-004		5/26/2006	13:50	Groundwater	Tritium/Strontium/Gamma Spectrum
NW-A	WG-TMI-NW-A-053006-JC-005		5/30/2006	16:15	Groundwater	Tritium/Strontium/Gamma Spectrum
NW-B	WG-TMI-NW-B-053006-JC-006		5/30/2006	17:20	Groundwater	Tritium/Strontium/Gamma Spectrum
NW-C	WG-TMI-NW-C-053006-JC-007		5/30/2006	17:25	Groundwater	Tritium/Strontium/Gamma Spectrum
OSF	WG-TMI-OSF-053006-JC-008		5/30/2006	18:15	Groundwater	Tritium/Strontium/Gamma Spectrum
48N	WG-TMI-48N-053106-JC-009		5/31/2006	9:50	Groundwater	Tritium/Strontium/Gamma Spectrum
48N	WG-TMI-48N-053106-JC-010	Duplicate (009)	5/31/2006	9:55	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-1	WG-TMI-MS-1-053106-JAS-011		5/31/2006	11:25	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB-1-053106-JAS-002	Rinsate	5/31/2006	12:30	Water	Tritium/Strontium/Gamma Spectrum
48S	WG-TMI-48S-053106-JC-013		5/31/2006	11:30	Groundwater	Tritium/Strontium/Gamma Spectrum
OS-18	WG-TMI-OS-18-053106-MM-014		5/31/2006	14:20	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-7	WG-TMI-MS-7-053106-JAS-015		5/31/2006	16:05	Groundwater	Tritium/Strontium/Gamma Spectrum
UST Closure Well	WG-TMI-UST-053106-JC-016		5/31/2006	16:20	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-19	WG-TMI-MS-19-053106-JAS-017		5/31/2006	18:55	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-6D	WG-TMI-6D-053106-EV-018		5/31/2006	16:00	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-6I	WG-TMI-MW-6I-053106-JC-019		5/31/2006	17:05	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-4I	WG-TMI-MW-4I-060106-JAS-020		6/1/2006	11:15	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-1D	WG-TMI-1D-060106-JC-021		6/1/2006	11:20	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-10S	WG-TMI-10S-060106-JAS-022		6/1/2006	15:35	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-8S	WG-TMI-8S-060106-JC-023		6/1/2006	16:25	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-8S	WG-TMI-8S-060106-JC-024	Duplicate (023)	6/1/2006	16:30	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-10I	WG-TMI-MW-10I-060106-JAS-005		6/1/2006	17:45	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB2-060106-JAS-026	Rinsate	6/1/2006	18:45	Water	Tritium/Strontium/Gamma Spectrum
MW-TMI-2D	WG-TMI-MW-2D-060106-EV-027		6/1/2006	16:00	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-2	WG-TMI-MS-2-060206-JAS-028		6/2/2006	13:05	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB3-060206-JAS-029	Rinsate	6/2/2006	14:00	Water	Tritium/Strontium/Gamma Spectrum
MS-8	WG-TMI-MS-8-060506-MMM-030		6/5/2006	14:45	Groundwater	Tritium/Strontium/Gamma Spectrum
OS-13B	WG-TMI-OS-13B-060506-MMM-031		6/5/2006	16:30	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-3	WG-TMI-MS-3-060506-JC-032		6/5/2006	16:05	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-3	WG-TMI-MS-3-060506-JC-033	Duplicate (032)	6/5/2006	16:10	Groundwater	Tritium/Strontium/Gamma Spectrum
#3	WG-TMI-#3-060606-JC-034		6/6/2006	10:50	Groundwater	Tritium/Strontium/Gamma Spectrum
J1-2	WS-TMI-SWJ1-2-060606-MMM-035		6/6/2006	11:15	Surface Water	Tritium/Strontium/Gamma Spectrum
E1-2	WG-TMI-E1-2-060606-MMM-036		6/6/2006	11:45	Groundwater	Tritium/Strontium/Gamma Spectrum
Training Center	WG-TMI-TRAINING CTR-060606-MMM-037		6/6/2006	12:30	Groundwater	Tritium/Strontium/Gamma Spectrum
OS-14	WG-TMI-OS-14-060606-EV-038		6/6/2006	11:55	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-5	WG-TMI-MS-5-060606-EV-039		6/6/2006	14:05	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-6	WG-TMI-MS-6-060606-EV-040		6/6/2006	14:10	Groundwater	Tritium/Strontium/Gamma Spectrum
A3-2	WS-TMI-SWA3-2-060606-MMM-041		6/6/2006	13:00	Surface Water	Tritium/Strontium/Gamma Spectrum
Q9-1	WS-TMI-SWQ9-1-060606-MMM-042		6/6/2006	16:00	Surface Water	Tritium/Strontium/Gamma Spectrum
N2-1	WG-TMI-N2-1-060606-MMM-043		6/6/2006	16:00	Groundwater	Tritium/Strontium/Gamma Spectrum

TABLE 1

SAMPLE KEY
FLEETWIDE ASSESSMENT
THREE MILE ISLAND GENERATING STATION
MIDDLETOWN, PENNSYLVANIA

Sample Location	*Sample Identification*	*QC Sample*	*Sample Date*	*Sample Time*	*Matrix*	*Analyses*
RW-2	WG-TMI-RW-2-060606-JC-044		6/6/2006	15:20	Groundwater	Tritium/Strontium/Gamma Spectrum
RW-2	WG-TMI-RW-2-060606-JC-045	Duplicate (044)	6/6/2006	15:25	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB4-060606-JC-046	Rinsate	6/6/2006	17:30	Water	Tritium/Strontium/Gamma Spectrum
MS-20	WG-TMI-MS-20-060706-EV-047		6/7/2006	12:45	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-21	WG-TMI-MS-21-060706-EV-048		6/7/2006	9:40	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-22	WG-TMI-MS-22-060706-MMM-049		6/7/2006	11:30	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-4	WG-TMI-MS-4-060706-JC-050		6/7/2006	10:20	Groundwater	Tritium/Strontium/Gamma Spectrum
MS-4	WG-TMI-MS-4-060706-JC-051	Duplicate (050)	6/7/2006	10:25	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB-5-060706-JC-052	Rinsate	6/7/2006	11:30	Water	Tritium/Strontium/Gamma Spectrum
MW-TMI-14I	WG-TMI-14I-060706-JC-053		6/7/2006	15:30	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-5D	WG-TMI-5D-060806-EV-054		6/8/2006	9:35	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-4S	WG-TMI-4S-060806-EV-055		6/8/2006	10:00	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-13I	WG-TMI-MW-13I-060806-MMM-056		6/8/2006	10:45	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-7S	WG-TMI-7S-060806-JC-057		6/8/2006	10:05	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-3I	WG-TMI-3I-060806-JC-058		6/8/2006	11:45	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-13S	WG-TMI-13S-060806-JC-059		6/8/2006	14:35	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB6-060806-JC-060	Rinsate	6/8/2006	15:50	Water	Tritium/Strontium/Gamma Spectrum
Closed Demo DW10	WG-TMI-DW10-061206-MMM-061		6/12/2006	11:15	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB7-061206-MMM-062	Rinsate	6/12/2006	15:00	Water	Tritium/Strontium/Gamma Spectrum
MW-TMI-14D	WG-TMI-MW14D-061306-MMM-063		6/13/2006	10:45	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-10D	WG-TMI-MW10D-061306-MMM-064		6/13/2006	13:00	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-10D	WG-TMI-MW10D-061306-MMM-065	Duplicate (064)	6/13/2006	13:10	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB8-061306-MMM-066	Rinsate	6/13/2006	14:00	Water	Tritium/Strontium/Gamma Spectrum
MW-TMI-12S	WG-TMI-MW12S-061406-MMM-067		6/14/2006	14:30	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-17I	WG-TMI-17I-080406-MM-100		8/4/2006	10:15	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-17D	WG-TMI-17D-080406-MM-101		8/4/2006	11:45	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-9I	WG-TMI-9I-080406-MM-102		8/4/2006	14:15	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB-080406-MM-103	Rinsate	8/4/2006	15:00	Water	Tritium/Strontium/Gamma Spectrum
MW-TMI-16I	WG-TMI-16I-080806-MM-104		8/8/2006	10:35	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-16D	WG-TMI-16D-080806-MM-105		8/8/2006	11:55	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-18D	WG-TMI-18D-080806-MM-106		8/8/2006	14:10	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB2-080806-MM-107	Rinsate	8/8/2006	14:30	Water	Tritium/Strontium/Gamma Spectrum
MW-TMI-19D	WG-TMI-19D-080906-MM-108		8/9/2006	10:00	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-19I	WG-TMI-19I-080906-MM-109		8/9/2006	11:45	Groundwater	Tritium/Strontium/Gamma Spectrum
MW-TMI-19D	WG-TMI-DUP-080906-MM-110	Duplicate (108)	8/9/2006	13:00	Groundwater	Tritium/Strontium/Gamma Spectrum
--	RB-TMI-RB3-080906-MM-111	Rinsate	8/9/2006	13:30	Water	Tritium/Strontium/Gamma Spectrum

QC - Quality Control
Gamma Spectrum - Barium-140, Cesium-134, Cesium-137, Cobalt-58, Cobalt-60, Iron-59, Lanthanum-140, Manganese-54, Niobium-95, Zinc-65, Zirconium-95
Isotopes not listed in Table 1, but typically detected in environmental samples (i.e. Ac-228, K-40, Be-7, Ra-226, Th-228, Th-232, etc.) were reported if detected.

TABLE 3

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO RINSATE BLANK CONTAMINATION
FLEETWIDE ASSESSMENT
THREE MILE ISLAND GENERATING STATION
MIDDLETOWN, PENNSYLVANIA

Rinse Blank Date	*Analyte*	*Blank Result*	*Sample ID*	*Sample Result*	*Uncertainty @ 2 sigma*	*Qualified Sample Result*	*Units*
6/07/2006	Tritium	208	WG-TMI-14I-060706-JC-053	597	+/- 140	597 J	pCi/L
			WG-TMI-MS-20-060706-EV-047	390	+/-127	390 J	pCi/L
			WG-TMI-MS-21-060706-EV-048	408	+/-129	408 J	pCi/L
			WG-TMI-MS-4-060706-JC-050	472	+/-131	472 J	pCi/L
			WG-TMI-MS-4-060706-JC-051	426	+/-128	426 J	pCi/L
6/13/2006	Tritium	224	WG-TMI-MW10D-061306-MMM-064	522	+/- 522	522 J	pCi/L
			WG-TMI-MW10D-061306-MMM-065	631	+/- 631	631 J	pCi/L
8/08/2006	Tritium	255	WG-TMI-16I-080806-MM-104	504	+/- 135	504 J	pCi/L
			WG-TMI-16D-080806-MM-105	416	+/- 131	416 J	pCi/L
			WG-TMI-18D-080806-MM-106	225	+/- 119	225 J	pCi/L

Notes:

J - The associated numerical value is an estimated quanity

TABLE 4

SUMMARY OF DETECTED ANALYTES IN FIELD DUPLICATE SAMPLE SETS
FLEETWIDE ASSESSMENT
THREE MILE ISLAND GENERATING STATION
MIDDLETOWN, PENNSYLVANIA

Analyte	Original Sample ID	Original Result	*Uncertainty @ 2 sigma*	Duplicate Sample ID	Duplicate Result	*Uncertainty @ 2 sigma*	RPD	Units
Tritium	WG-TMI-8S-060106-JC-023	349	+/- 112	WG-TMI-8S-060106-JC-024	246	+/- 109	35	pCi/L
Tritium	WG-TMI-RW-2-060606-JC-044	5660	+/- 621	WG-TMI-RW-2-060606-JC-045	6700	+/- 723	17	pCi/L
Tritium	WG-TMI-MS-4-060706-JC-050	472	+/- 131	WG-TMI-MS-4-060706-JC-051	426	+/- 128	10	pCi/L
Tritium	WG-TMI-19D-080906-MM-108	317	+/- 126	WG-TMI-DUP-080906-MM-110	331	+/- 129	4	pCi/L

Notes:

RPD Relative Percent Difference