Analytical Results Summary

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Report of Analysis

06/20/06 08:58

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06 (WG)

hy Shaw

Sample ID: RB-TMI-RB2-060106-JAS-026
Station:
Description:
LIMS Number: L28896-1

Collect Start: 06/01/2006 18:45
Collect Stop:
Receive Date: 06/10/2006

Matrix: Ground Water
Volume:
% Moisture:

adionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
3	2010	1.04E+02	1.09E+02	1.67E+02	pCi/L		10	ml		06/14/06	60	M	U			
OTAL SR	2018	4.39E-01	6.03E-01	1.09E+00	pCi/L		450	ml	06/01/06 18:45	06/15/06	200	M	U			
N-54	2007	1.05E+00	2.49E+00	4.35E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
O-58	2007	-8.93E-01	2.51E+00	4.22E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
E-59	2007	-7.13E-01	5.10E+00	8.83E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
O-60	2007	1.03E+00	2.35E+00	4.22E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
N-65	2007	2.95E+00	5.97E+00	9.14E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
B-95	2007	1.67E+00	2.58E+00	4.58E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
R-95	2007	-7.59E-01	4.56E+00	7.78E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
S-134	2007	4.75E-01	4.31E+00	4.36E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
S-137	2007	-9.94E-01	2.55E+00	4.31E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
BA-140	2007	-9.72E+00	1.80E+01	2.96E+01	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	18000	Sec	U		No	
LA-140	2007	-2.13E+00	5.48E+00	9.43E+00	pCi/L		3104.95	ml	06/01/06 18:45	06/15/06	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

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 08:58

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06 (WG)

ıy Shaw

Sample ID: RB-TMI-RB4-060606-JC-046
Station:
Description:
LIMS Number: L28896-2

Collect Start: 06/06/2006 17:30
Collect Stop:
Receive Date: 06/10/2006

Matrix: Ground Water
Volume:
% Moisture:

adionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
3	2010	1.23E+02	1.11E+02	**1.69E+02**	pCi/L		10	ml		06/14/06	60	M	U			
)TAL SR	2018	2.59E-01	4.57E-01	**8.38E-01**	pCi/L		450	ml	06/06/06 17:30	06/15/06	200	M	U			
N-54	2007	-8.74E-01	2.23E+00	**3.61E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
O-58	2007	-1.19E+00	2.21E+00	**3.55E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
E-59	2007	3.73E+00	4.45E+00	**7.73E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
:O-60	2007	1.21E-01	2.22E+00	**3.64E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
ZN-65	2007	6.28E+00	4.77E+00	**8.47E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
NB-95	2007	4.00E-01	2.20E+00	**3.70E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
ZR-95	2007	-8.48E-01	4.10E+00	**6.58E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
CS-134	2007	7.47E+00	4.34E+00	**4.02E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U*			No
CS-137	2007	1.64E+00	2.25E+00	**3.83E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
BA-140	2007	5.06E+00	1.25E+01	**2.11E+01**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	18000	Sec	U			No
LA-140	2007	2.90E+00	3.99E+00	**6.91E+00**	pCi/L		3080.32	ml	06/06/06 17:30	06/15/06	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

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 08:58

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06 (WG)

ıy Shaw

Sample ID: RB-TMI-RB6-060806-JC-060
Station:
Description:
.IMS Number: L28896-3

Collect Start: 06/08/2006 15:50
Collect Stop:
Receive Date: 06/10/2006

Matrix: Ground Water
Volume:
% Moisture:

adionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
3	2010	1.27E+02	1.10E+02	**1.67E+02**	pCi/L		10	ml		06/14/06	60	M	U		
TAL SR	2018	9.63E-01	8.40E-01	**1.47E+00**	pCi/L		450	ml	06/08/06 15:50	06/15/06	200	M	U		
40	2007	**1.49E+02**	6.81E+01	5.31E+01	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	+		Yes
N-54	2007	-5.01E-01	3.24E+00	**5.30E+00**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
O-58	2007	2.74E-01	3.38E+00	**5.61E+00**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
3-59	2007	6.21E+00	6.55E+00	**1.14E+01**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
O-60	2007	2.27E+00	3.20E+00	**5.55E+00**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
N-65	2007	1.08E+01	7.03E+00	**1.26E+01**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
IB-95	2007	4.63E+00	3.38E+00	**5.97E+00**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
R-95	2007	-6.73E+00	6.20E+00	**9.50E+00**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
S-134	2007	2.55E+00	9.45E+00	**6.66E+00**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
S-137	2007	2.03E+00	3.40E+00	**5.74E+00**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
3A-140	2007	4.27E-01	1.65E+01	**2.68E+01**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	Sec	U		No
LA-140	2007	2.89E-01	5.38E+00	**8.95E+00**	pCi/L		3093.3	ml	06/08/06 15:50	06/15/06	20851	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 08:58

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

hy Shaw

Sample ID: **WG-TMI-14I-060706-JC-053**
Station:
Description:
IMS Number: L28896-4

Collect Start: 06/07/2006 15:30
Collect Stop:
Receive Date: 06/10/2006

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

ıdionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
	2010	**5.97E+02**	1.40E+02	1.71E+02	pCi/L		10	ml		06/14/06	60	M	+		
TAL SR	2018	9.62E-01	1.06E+00	**1.89E+00**	pCi/L		450	ml	06/07/06 15:30	06/15/06	200	M	U		
I-54	2007	1.18E+00	2.72E+00	**4.53E+00**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
-58	2007	-3.91E-01	2.65E+00	**4.29E+00**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
59	2007	5.45E+00	5.99E+00	**1.03E+01**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
-60	2007	-3.39E-01	3.04E+00	**4.71E+00**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
-65	2007	9.74E+00	7.43E+00	**1.15E+01**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
-95	2007	2.86E+00	2.76E+00	**4.77E+00**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
-95	2007	-6.16E-01	4.75E+00	**7.72E+00**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U*	No	
-134	2007	1.03E+01	5.92E+00	**5.50E+00**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
-137	2007	-5.15E-01	2.71E+00	**4.44E+00**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
-140	2007	2.54E+00	1.35E+01	**2.23E+01**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	
-140	2007	4.57E+00	4.43E+00	**7.92E+00**	pCi/L		3031.2	ml	06/07/06 15:30	06/15/06	18000	Sec	U	No	

lag Values
J = Compound/Analyte not detected or less than 3 sigma
. = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
J* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
Iigh = Activity concentration exceeds customer reporting value
ipec = MDC exceeds customer technical specification
= Low recovery
I = 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 08:58

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06 (WG)

hy Shaw

Sample ID: WG-TMI-MS-20-060706-EV-047
Station:
Description:
LIMS Number: L28896-5

Collect Start: 06/07/2006 12:45
Collect Stop:
Receive Date: 06/10/2006

Matrix: Ground Water
Volume:
% Moisture:

adionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
3	2010	**3.90E+02**	1.27E+02	1.69E+02	pCi/L		10	ml		06/14/06	60	M	+			
OTAL SR	2018	8.05E-01	1.04E+00	**1.88E+00**	pCi/L		450	ml	06/07/06 12:45	06/15/06	200	M	U			
N-54	2007	-1.50E-01	2.37E+00	**3.88E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
O-58	2007	-2.79E+00	2.57E+00	**3.98E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
E-59	2007	2.60E+00	5.01E+00	**8.50E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
O-60	2007	-8.45E-02	2.57E+00	**4.24E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
N-65	2007	4.81E+00	5.17E+00	**8.96E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
B-95	2007	1.62E+00	2.45E+00	**4.18E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
R-95	2007	-2.67E+00	4.27E+00	**6.83E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U*		No	
S-134	2007	6.21E+00	3.98E+00	**4.23E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
S-137	2007	1.68E+00	2.73E+00	**4.37E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
BA-140	2007	-3.97E+00	1.19E+01	**1.93E+01**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	18000	Sec	U		No	
LA-140	2007	-2.40E+00	4.44E+00	**6.92E+00**	pCi/L		3062.08	ml	06/07/06 12:45	06/15/06	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

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 08:58

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06 (WG)

thy Shaw

Sample ID: **RB-TMI-RB-5-060706-JC-052**
Station:
Description:
LIMS Number: L28896-6

Collect Start: 06/07/2006 11:30
Collect Stop:
Receive Date: 06/10/2006

Matrix: Ground Water
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		
3	2010	**2.08E+02**	1.17E+02	1.71E+02	pCi/L		10	ml		06/15/06	60	M	+		
OTAL SR	2018	2.72E-01	5.51E-01	**1.01E+00**	pCi/L		450	ml	06/07/06 11:30	06/15/06	200	M	U		
N-54	2007	-1.71E+00	2.94E+00	**4.61E+00**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
O-58	2007	-4.19E+00	3.11E+00	**4.63E+00**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
E-59	2007	1.33E-02	6.25E+00	**1.04E+01**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
O-60	2007	-2.11E-01	3.03E+00	**4.91E+00**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
N-65	2007	1.08E+01	7.44E+00	**1.19E+01**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
B-95	2007	1.57E+00	3.08E+00	**5.20E+00**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
R-95	2007	-3.81E+00	5.67E+00	**8.95E+00**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
S-134	2007	6.46E+00	6.97E+00	**5.69E+00**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
S-137	2007	1.86E+00	3.12E+00	**5.33E+00**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
BA-140	2007	-7.10E+00	1.60E+01	**2.58E+01**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	Sec	U		No
LA-140	2007	6.48E+00	5.40E+00	**9.75E+00**	pCi/L		3121.36	ml	06/07/06 11:30	06/15/06	16200	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 08:58

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

hy Shaw

Sample ID: **WG-TMI-MS-3-060506-JC-032**
Station:
Description:
IMS Number: L28896-7

Collect Start: 06/05/2006 16:05
Collect Stop:
Receive Date: 06/10/2006

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

ıdionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
	2010	**2.78E+02**	1.22E+02	1.71E+02	pCi/L		10	ml		06/15/06	60	M	+		
TAL SR	2018	5.04E-01	8.42E-01	**1.54E+00**	pCi/L		450	ml	06/05/06 16:05	06/15/06	200	M	U		
I-54	2007	1.41E+00	2.61E+00	**3.94E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
-58	2007	-1.64E-01	2.44E+00	**3.96E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
59	2007	2.89E+00	4.74E+00	**8.11E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
-60	2007	-7.68E-02	2.36E+00	**3.83E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U*		No
-65	2007	9.20E+00	5.62E+00	**8.78E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
-95	2007	-4.00E-01	2.39E+00	**3.90E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
-95	2007	1.10E+00	4.27E+00	**7.10E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
-134	2007	7.10E+00	5.29E+00	**4.37E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
-137	2007	1.80E+00	2.41E+00	**4.12E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
-140	2007	-1.96E+00	1.32E+01	**2.17E+01**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No
-140	2007	3.48E+00	4.79E+00	**8.19E+00**	pCi/L		3112.08	ml	06/05/06 16:05	06/15/06	28800	Sec	U		No

lag Values
: = Compound/Analyte not detected or less than 3 sigma
= Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
|* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
ligh = Activity concentration exceeds customer reporting value
pec = MDC exceeds customer technical specification
, = Low recovery
I = 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 08:58

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

hy Shaw

Sample ID: WG-TMI-MS-4-060706-JC-050
Station:
Description:
IMS Number: L28896-8

Collect Start: 06/07/2006 10:20
Collect Stop:
Receive Date: 06/10/2006

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

adionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
I	2010	**4.72E+02**	1.31E+02	1.69E+02	pCi/L		10	ml		06/15/06	60	M	+		
TAL SR	2018	2.52E-01	9.37E-01	**1.75E+00**	pCi/L		450	ml	06/07/06 10:20	06/15/06	200	M	U		
N-54	2007	1.83E+00	3.29E+00	**5.59E+00**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
O-58	2007	3.63E-01	3.66E+00	**6.00E+00**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
-59	2007	-2.31E+00	6.61E+00	**1.04E+01**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
O-60	2007	1.65E+00	3.16E+00	**6.41E+00**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		Yes
N-65	2007	2.05E+00	9.19E+00	**1.32E+01**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
B-95	2007	2.08E+00	3.48E+00	**5.94E+00**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
R-95	2007	-5.39E-01	6.02E+00	**9.79E+00**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
S-134	2007	8.12E+00	6.01E+00	**5.91E+00**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
S-137	2007	1.14E+00	3.37E+00	**5.71E+00**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
A-140	2007	7.15E+00	1.76E+01	**2.97E+01**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	Sec	U		No
A-140	2007	1.17E+00	6.60E+00	**1.10E+01**	pCi/L		3089.29	ml	06/07/06 10:20	06/16/06	10381	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 08:58

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

hy Shaw

Sample ID: **WG-TMI-MS-22-060706-MMM-049**
Station:
Description:
IMS Number: L28896-9

Collect Start: 06/07/2006 11:30
Collect Stop:
Receive Date: 06/10/2006

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

ıdionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
	2010	**1.05E+03**	1.66E+02	1.78E+02	pCi/L		10	ml		06/15/06	55.18	M	+		
TAL SR	2018	1.16E+00	8.38E-01	**1.45E+00**	pCi/L		450	ml	06/07/06 11:30	06/15/06	200	M	U		
-54	2007	-1.43E+00	2.95E+00	**4.69E+00**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No
-58	2007	-1.02E+00	3.12E+00	**5.01E+00**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No
59	2007	2.13E+00	6.15E+00	**1.04E+01**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No
-60	2007	9.69E-01	2.88E+00	**4.82E+00**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U*		No
-65	2007	1.22E+01	6.52E+00	**1.19E+01**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No
-95	2007	3.97E+00	3.28E+00	**5.70E+00**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No
-95	2007	-2.78E+00	6.03E+00	**9.70E+00**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U*		No
-134	2007	1.23E+01	4.34E+00	**6.80E+00**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No
-137	2007	8.74E-01	3.10E+00	**5.21E+00**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No
-140	2007	-2.88E+00	1.62E+01	**2.64E+01**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No
-140	2007	-6.51E-01	5.70E+00	**9.23E+00**	pCi/L		3158.85	ml	06/07/06 11:30	06/16/06	12781	Sec	U		No

lag Values
= Compound/Analyte not detected or less than 3 sigma
= Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
ligh = Activity concentration exceeds customer reporting value
pec = MDC exceeds customer technical specification
= Low recovery
= 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 08:58

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

hy Shaw

Sample ID: WG-TMI-MS-21-060706-EV-048
Station:
Description:
IMS Number: L28896-10

Collect Start: 06/07/2006 09:40
Collect Stop:
Receive Date: 06/10/2006

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

ıdionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
	2010	**4.08E+02**	1.29E+02	1.70E+02	pCi/L		10	ml		06/15/06	60	M	+		
ΓAL SR	2018	-6.76E-01	7.55E-01	**1.60E+00**	pCi/L		450	ml	06/07/06 09:40	06/15/06	150	M	U		
:-54	2007	4.18E-01	3.45E+00	**5.72E+00**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
-58	2007	1.71E+00	3.63E+00	**6.17E+00**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
59	2007	1.89E+00	7.30E+00	**1.23E+01**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
-60	2007	-4.01E-01	3.44E+00	**5.62E+00**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
-65	2007	3.56E+00	9.51E+00	**1.37E+01**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
-95	2007	4.91E+00	3.54E+00	**6.39E+00**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
-95	2007	-1.12E+01	6.26E+00	**9.01E+00**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U*		No
-134	2007	9.66E+00	6.20E+00	**6.83E+00**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
-137	2007	2.87E+00	3.34E+00	**5.66E+00**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
-140	2007	-9.25E+00	1.92E+01	**3.09E+01**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	U		No
-140	2007	5.06E+00	6.40E+00	**1.13E+01**	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec	+		Yes
-228	2007	**1.58E+01**	6.71E+00	8.91E+00	pCi/L		3128.17	ml	06/07/06 09:40	06/16/06	9181	Sec			

ıg Values
= Compound/Analyte not detected or less than 3 sigma
= Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
= Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
gh = Activity concentration exceeds customer reporting value
ec = MDC exceeds customer technical specification
= Low recovery
= High recovery

ɔlded 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 08:58

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28896

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

hy Shaw

Sample ID: **WG-TMI-MS-4-060706-JC-051**
Station:
Description:
IMS Number: L28896-11

Collect Start: 06/07/2006 10:25
Collect Stop:
Receive Date: 06/10/2006

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

ıdionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
	2010	**4.26E+02**	1.28E+02	1.68E+02	pCi/L		10	ml		06/15/06	60	M	+		
TAL SR	2018	8.68E-01	9.08E-01	**1.62E+00**	pCi/L		450	ml	06/07/06 10:25	06/15/06	200	M	U		
I-54	2007	-4.73E-01	3.20E+00	**5.50E+00**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-58	2007	1.72E+00	3.44E+00	**6.16E+00**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-59	2007	-4.73E+00	6.34E+00	**1.06E+01**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-60	2007	1.94E-01	2.97E+00	**5.32E+00**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-65	2007	1.04E+01	7.50E+00	**1.29E+01**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-95	2007	1.62E+00	3.33E+00	**5.97E+00**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-95	2007	-6.54E+00	5.92E+00	**9.53E+00**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-134	2007	9.08E+00	6.18E+00	**6.84E+00**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-137	2007	-1.08E+00	3.36E+00	**5.75E+00**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-140	2007	1.08E+01	1.84E+01	**3.24E+01**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No
-140	2007	3.76E+00	5.03E+00	**9.86E+00**	pCi/L		3086.97	ml	06/07/06 10:25	06/16/06	10441	Sec	U		No

lag Values
J = Compound/Analyte not detected or less than 3 sigma
. = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
J* = 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

C Summary Report for L28896

6/20/2006 1:47:18PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

H-3

Method Blank Summary

Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
4143-1	H-3	WO	06/14/2006 15:03	< 1.660E+00	pCi/Total	U	P

LCS Sample Summary

Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
4143-2	H-3	WO	06/14/2006 16:07	5.05E+002	4.530E+02	pCi/Total	89.7	70-130	+	P

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

Duplicate Summary

Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
4143-3 896-1	H-3	WG	06/14/2006 16:27	< 1.670E+02	< 1.720E+02	pCi/L		<30	**	NE

Positive Result
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
Pass
Fail
E Not evaluated

C Summary Report for L28896

6/20/2006 1:47:18PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28896 **H-3**

Associated Samples for **WG4143**

SAMPLENUM	CLIENTID
L28896-1	RB-TMI-RB2-060106-JAS-026
L28896-2	RB-TMI-RB4-060606-JC-046
L28896-3	RB-TMI-RB6-060806-JC-060
L28896-4	WG-TMI-14I-060706-JC-053
L28896-5	WG-TMI-MS-20-060706-EV-047
L28896-6	RB-TMI-RB-5-060706-JC-052
L28896-7	WG-TMI-MS-3-060506-JC-032
L28896-8	WG-TMI-MS-4-060706-JC-050
L28896-9	WG-TMI-MS-22-060706-MMM-049
L28896-10	WG-TMI-MS-21-060706-EV-048
L28896-11	WG-TMI-MS-4-060706-JC-051

Positive Result
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
Pass
Fail
E Not evaluated

C Summary Report for L28896

6/20/2006 1:47:18PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

TOTAL SR

Method Blank Summary

E Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
4149-1	TOTAL SR	WO	06/15/2006 20:55	< 7.540E-01	pCi/Total	U	P

LCS Sample Summary

E Sample ID	Radionuclide	Matrix	Count Date/Time	Spike Value	LCS Result	Units	Spike Recovery	Range	Qualifier	P/F
4149-2	TOTAL SR	WO	06/15/2006 20:55	5.84E+001	6.400E+01	pCi/Total	109.6	70-130	+	P

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

Duplicate Summary

E Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
4149-3 896-1	TOTAL SR	WG	06/15/2006 17:34	< 1.090E+00	< 1.080E+00	pCi/L		<30	**	NE

Positive Result
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
Pass
Fail
Not evaluated

Raw Data

Raw Data Sheet (rawdata)
Jun 20 2006, 09:12 am

Order: L28896 Customer: Exelon

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

le ID / nt 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
8896-1		H-3		10 ml			0		14-jun-06 19:39	LS7	132	60	1.71	60	.212		EJ
MI-RB2-060106-JAS- vity: 1.04E+02 Error: 1.09E+02				MDC: 1.67E+02 *													
8896-2		H-3		10 ml			0		14-jun-06 20:43	LS7	137	60	1.71	60	.21		EJ
MI-RB4-060606-JC-0 vity: 1.23E+02 Error: 1.11E+02				MDC: 1.69E+02 *													
8896-3		H-3		10 ml			0		14-jun-06 21:47	LS7	139	60	1.71	60	.212		EJ
MI-RB6-060806-JC-0 vity: 1.27E+02 Error: 1.1E+02				MDC: 1.67E+02 *													
8896-4		H-3		10 ml			0		14-jun-06 22:52	LS7	267	60	1.71	60	.207		EJ
MI-14I-060706-JC-0 vity: 5.97E+02 * Error: 1.4E+02				MDC: 1.71E+02													
8896-5		H-3		10 ml			0		14-jun-06 23:56	LS7	212	60	1.71	60	.21		EJ
MI-MS-20-060706-EV vity: 3.9E+02 * Error: 1.27E+02				MDC: 1.69E+02													
8896-6		H-3		10 ml			0		15-jun-06 02:04	LS7	160	60	1.71	60	.208		EJ
MI-RB-5-060706-JC- ivity: 2.08E+02 * Error: 1.17E+02				MDC: 1.71E+02													
8896-7		H-3		10 ml			0		15-jun-06 03:08	LS7	179	60	1.71	60	.207		EJ
MI-MS-3-060506-JC- ivity: 2.78E+02 * Error: 1.22E+02				MDC: 1.71E+02													
8896-8		H-3		10 ml			0		15-jun-06 04:13	LS7	235	60	1.71	60	.21		EJ
MI-MS-4-060706-JC- ivity: 4.72E+02 * Error: 1.31E+02				MDC: 1.69E+02													
8896-9		H-3		10 ml			0		15-jun-06 05:17	LS7	361	55.18	1.71	60	.208		EJ
MI-MS-22-060706-MM ivity: 1.05E+03 * Error: 1.66E+02				MDC: 1.78E+02													
8896-10		H-3		10 ml			0		15-jun-06 06:16	LS7	216	60	1.71	60	.209		EJ
MI-MS-21-060706-EV ivity: 4.08E+02 * Error: 1.29E+02				MDC: 1.7E+02													
8896-11		H-3		10 ml			0		15-jun-06 07:21	LS7	223	60	1.71	60	.212		EJ
MI-MS-4-060706-JC- ivity: 4.26E+02 * Error: 1.28E+02				MDC: 1.68E+02													

Raw Data Sheet (rawdata)
Jun 20 2006, 09:12 am

Order: L28896 Customer: Exelon

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

le ID nt 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
8896-1		TOTAL SR	01-jun-06		15-jun-06		0		15-jun-06	X1C	167	200	289	400	.354	.999	LCB
MI-RB2-060106-JAS-			18:45	450 ml	11:00			72.58	17:34								
vity: 4.39E-01	Error: 6.03E-01		MDC: 1.09E+00 *														
8896-2		TOTAL SR	06-jun-06		15-jun-06		0		15-jun-06	X1D	174	200	312	400	.344	.999	LCB
MI-RB4-060606-JC-0			17:30	450 ml	11:00			101.08	17:34								
vity: 2.59E-01	Error: 4.57E-01		MDC: 8.38E-01 *														
8896-3		TOTAL SR	08-jun-06		15-jun-06		0		15-jun-06	X2A	167	200	264	400	.354	1	LCB
MI-RB6-060806-JC-0			15:50	450 ml	11:00			51.34	17:34								
vity: 9.63E-01	Error: 8.4E-01		MDC: 1.47E+00 *														
8896-4		TOTAL SR	07-jun-06		15-jun-06		0		15-jun-06	X2B	173	200	289	400	.345	.999	LCB
MI-14I-060706-JC-0			15:30	450 ml	11:00			43.01	17:34								
vity: 9.62E-01	Error: 1.06E+00		MDC: 1.89E+00 *														
8896-5		TOTAL SR	07-jun-06		15-jun-06		0		15-jun-06	X2C	162	200	277	400	.344	.999	LCB
MI-MS-20-060706-EV			12:45	450 ml	11:00			42.47	17:34								
vity: 8.05E-01	Error: 1.04E+00		MDC: 1.88E+00 *														
8896-6		TOTAL SR	07-jun-06		15-jun-06		0		15-jun-06	X2D	169	200	307	400	.343	.999	LCB
MI-RB-5-060706-JC-			11:30	450 ml	11:00			83.06	17:34								
vity: 2.72E-01	Error: 5.51E-01		MDC: 1.01E+00 *														
8896-7		TOTAL SR	05-jun-06		15-jun-06		0		15-jun-06	X3A	202	200	363	400	.335	.999	LCB
MI-MS-3-060506-JC-			16:05	450 ml	11:00			60.75	17:34								
vity: 5.04E-01	Error: 8.42E-01		MDC: 1.54E+00 *														
8896-8		TOTAL SR	07-jun-06		15-jun-06		0		15-jun-06	X3B	169	200	321	400	.343	.999	LCB
MI-MS-4-060706-JC-			10:20	450 ml	11:00			49.19	17:34								
vity: 2.52E-01	Error: 9.37E-01		MDC: 1.75E+00 *														
8896-9		TOTAL SR	07-jun-06		15-jun-06		0		15-jun-06	X3C	192	200	294	400	.345	.999	LCB
MI-MS-22-060706-MM			11:30	450 ml	11:00			56.45	17:34								
vity: 1.16E+00	Error: 8.38E-01		MDC: 1.45E+00 *														
8896-10		TOTAL SR	07-jun-06		15-jun-06		0		15-jun-06	X1B	106	150	342	400	.343	.999	LCB
MI-MS-21-060706-EV			09:40	450 ml	11:00			63.98	20:55								
vity: -6.76E-01	Error: 7.55E-01		MDC: 1.6E+00 *														
8896-11		TOTAL SR	07-jun-06		15-jun-06		0		15-jun-06	X4C	180	200	299	400	.35	.999	LCB
MI-MS-4-060706-JC-			10:25	450 ml	11:00			50.27	17:34								
vity: 8.68E-01	Error: 9.08E-01		MDC: 1.62E+00 *														

Sec. Review: Analyst: KD LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 21:41:12.89
TBE23 03017322 HpGe ********** Aquisition Date/Time: 15-JUN-2006 16:40:42.93

LIMS No., Customer Name, Client ID: WG L28896-1 TMI

Smple Date: 1-JUN-2006 18:45:00.0

Sample ID : 23L28896-1
Sample Type : WG
Quantity : 3.10500E+00 L
Start Channel : 50
End Channel : 4090
MDA Constant : 0.00

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

Geometry : 233L082404
BKGFILE : 23BG060306MT
Real Time : 0 05:00:12.07
Live time : 0 05:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	7	33.72*	6	28	1.17	67.78	8.16E-02	3.56E-04	300.7	1.95E+00
2	6	63.22*	127	705	1.64	126.72	1.04E+00	7.07E-03	43.2	1.39E+00
3	6	66.19	152	917	2.22	132.66	1.15E+00	8.44E-03	43.0	
4	0	92.41*	115	867	1.32	185.06	1.93E+00	6.38E-03	55.4	
5	0	139.39*	142	885	1.19	278.95	2.32E+00	7.88E-03	44.4	
6	0	198.23*	89	522	1.11	396.56	2.11E+00	4.96E-03	50.6	
7	0	583.48*	36	126	0.63	1166.66	9.71E-01	1.98E-03	74.1	
8	0	595.50	60	105	1.15	1190.69	9.56E-01	3.31E-03	33.5	
9	0	608.92*	20	87	1.50	1217.52	9.41E-01	1.09E-03	117.4	
10	0	911.85*	39	96	1.61	1823.25	7.08E-01	2.14E-03	65.3	
11	0	1120.75*	9	35	1.81	2241.02	6.15E-01	4.96E-04	165.7	

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
AC-228	835.50	------	1.75	7.515E-01	------	Line Not Found	------
	911.07	39	27.70*	7.079E-01	9.503E+00	9.547E+00	130.61
	583.14	36	30.25	9.709E-01	5.881E+00	5.881E+00	148.22
TH-232	911.07	39	27.70*	7.079E-01	9.503E+00	9.503E+00	130.61
	969.11	------	16.60	6.793E-01	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L28896-1

Acquisition date : 15-JUN-2006 16:40:42

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
AC-228	5.75Y	1.00	9.503E+00	9.547E+00	12.47E+00	130.61	
TH-232	1.41E+10Y	1.00	9.503E+00	9.503E+00	12.41E+00	130.61	
			---	---			
Total Activity :			1.901E+01	1.905E+01			

Grand Total Activity : 1.901E+01 1.905E+01

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

Unidentified Energy Lines
Sample ID : 23L28896-1

Acquisition date : 15-JUN-2006 16:40:42

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
7	33.72	6	28	1.17	67.78	65	12	3.56E-04	****	8.16E-02	
6	63.22	127	705	1.64	126.72	122	18	7.07E-03	86.5	1.04E+00	
6	66.19	152	917	2.22	132.66	122	18	8.44E-03	86.0	1.15E+00	
0	92.41	115	867	1.32	185.06	180	11	6.38E-03	****	1.93E+00	
0	139.39	142	885	1.19	278.95	273	12	7.88E-03	88.8	2.32E+00	
0	198.23	89	522	1.11	396.56	392	9	4.96E-03	****	2.11E+00	
0	595.50	60	105	1.15	1190.69	1187	9	3.31E-03	67.0	9.56E-01	
0	608.92	20	87	1.50	1217.52	1213	10	1.09E-03	****	9.41E-01	
0	1120.75	9	35	1.81	2241.02	2236	10	4.96E-04	****	6.15E-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
AC-228	5.75Y	1.00	3.621E+00	3.638E+00	15.24E+00	418.83	
TH-232	1.41E+10Y	1.00	5.881E+00	5.881E+00	8.718E+00	148.22	
Total Activity :			9.503E+00	9.519E+00			

Grand Total Activity : 9.503E+00 9.519E+00

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/MD
AC-228	3.638E+00	1.524E+01	1.419E+01	0.000E+00	0.25
TH-232	5.881E+00	8.718E+00	1.607E+01	0.000E+00	0.36

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

Key-Line

Nuclide	Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-8.987E+00		2.321E+01	3.860E+01	0.000E+00	-0.233
NA-24	-1.277E+01		6.495E+00	Half-Life too short		
K-40	-1.428E+01		3.680E+01	7.079E+01	0.000E+00	-0.202
CR-51	-2.668E+01		2.825E+01	4.662E+01	0.000E+00	-0.572
MN-54	1.045E+00		2.489E+00	4.351E+00	0.000E+00	0.240
CO-57	-5.050E-01		2.610E+00	4.362E+00	0.000E+00	-0.116
CO-58	-8.929E-01		2.507E+00	4.224E+00	0.000E+00	-0.211
FE-59	-7.129E-01		5.096E+00	8.826E+00	0.000E+00	-0.081
CO-60	1.028E+00		2.347E+00	4.220E+00	0.000E+00	0.244
ZN-65	2.949E+00		5.971E+00	9.142E+00	0.000E+00	0.323
SE-75	-4.328E+00		3.530E+00	5.821E+00	0.000E+00	-0.744
SR-85	1.628E+01		3.101E+00	6.060E+00	0.000E+00	2.686
Y-88	-2.171E+00		2.704E+00	4.453E+00	0.000E+00	-0.487
NB-94	-1.679E+00		2.232E+00	3.699E+00	0.000E+00	-0.454
NB-95	1.666E+00		2.575E+00	4.575E+00	0.000E+00	0.364
ZR-95	-7.593E-01		4.562E+00	7.782E+00	0.000E+00	-0.098
MO-99	-5.325E+01		5.789E+02	9.919E+02	0.000E+00	-0.054
RU-103	2.138E+00		3.020E+00	5.247E+00	0.000E+00	0.407
RU-106	-1.011E+01		2.325E+01	3.930E+01	0.000E+00	-0.257
AG-110m	1.252E+00		2.362E+00	4.174E+00	0.000E+00	0.300
SN-113	-1.981E+00		3.334E+00	5.531E+00	0.000E+00	-0.358
SB-124	1.926E+00		5.690E+00	4.509E+00	0.000E+00	0.427
SB-125	-1.666E+00		6.812E+00	1.143E+01	0.000E+00	-0.146
TE-129M	1.759E+01		3.668E+01	6.310E+01	0.000E+00	0.279
I-131	-1.805E+00		7.918E+00	1.334E+01	0.000E+00	-0.135
BA-133	-1.018E+00		3.323E+00	5.582E+00	0.000E+00	-0.182
CS-134	4.745E-01		4.306E+00	4.358E+00	0.000E+00	0.109
CS-136	-7.218E-01		4.585E+00	7.812E+00	0.000E+00	-0.092
CS-137	-9.937E-01		2.546E+00	4.307E+00	0.000E+00	-0.231
CE-139	-4.237E-01		2.734E+00	4.543E+00	0.000E+00	-0.093
BA-140	-9.722E+00		1.800E+01	2.961E+01	0.000E+00	-0.328
LA-140	-2.126E+00		5.481E+00	9.431E+00	0.000E+00	-0.225
CE-141	8.887E+00		6.725E+00	9.914E+00	0.000E+00	0.896
CE-144	2.709E+00		2.388E+01	3.406E+01	0.000E+00	0.080
EU-152	-6.715E+00		7.822E+00	1.291E+01	0.000E+00	-0.52C
EU-154	-3.636E-01		5.359E+00	8.976E+00	0.000E+00	-0.041
RA-226	2.986E+01		6.951E+01	1.110E+02	0.000E+00	0.26
TH-228	2.460E+00		5.171E+00	8.259E+00	0.000E+00	0.29
U-235	2.784E+01		2.439E+01	3.483E+01	0.000E+00	0.79
U-238	1.589E+02		2.615E+02	4.488E+02	0.000E+00	0.35
AM-241	1.131E+01		1.684E+01	2.407E+01	0.000E+00	0.47

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A,23L28896-1          ,06/15/2006 21:41,06/01/2006 18:45,    3.105E+00,WG L28896-1 TM
B,23L28896-1          ,LIBD                ,06/01/2006 10:14,233L082404
C,AC-228    ,YES,     3.638E+00,  1.524E+01,  1.419E+01,,     0.256
C,TH-232    ,YES,     5.881E+00,  8.718E+00,  1.607E+01,,     0.366
C,BE-7      ,NO ,    -8.987E+00,  2.321E+01,  3.860E+01,,    -0.233
C,K-40      ,NO ,    -1.428E+01,  3.680E+01,  7.079E+01,,    -0.202
C,CR-51     ,NO ,    -2.668E+01,  2.825E+01,  4.662E+01,,    -0.572
C,MN-54     ,NO ,     1.045E+00,  2.489E+00,  4.351E+00,,     0.240
C,CO-57     ,NO ,    -5.050E-01,  2.610E+00,  4.362E+00,,    -0.116
C,CO-58     ,NO ,    -8.929E-01,  2.507E+00,  4.224E+00,,    -0.211
C,FE-59     ,NO ,    -7.129E-01,  5.096E+00,  8.826E+00,,    -0.081
C,CO-60     ,NO ,     1.028E+00,  2.347E+00,  4.220E+00,,     0.244
C,ZN-65     ,NO ,     2.949E+00,  5.971E+00,  9.142E+00,,     0.323
C,SE-75     ,NO ,    -4.328E+00,  3.530E+00,  5.821E+00,,    -0.744
C,SR-85     ,NO ,     1.628E+01,  3.101E+00,  6.060E+00,,     2.686
C,Y-88      ,NO ,    -2.171E+00,  2.704E+00,  4.453E+00,,    -0.487
C,NB-94     ,NO ,    -1.679E+00,  2.232E+00,  3.699E+00,,    -0.454
C,NB-95     ,NO ,     1.666E+00,  2.575E+00,  4.575E+00,,     0.364
C,ZR-95     ,NO ,    -7.593E-01,  4.562E+00,  7.782E+00,,    -0.098
C,MO-99     ,NO ,    -5.325E+01,  5.789E+02,  9.919E+02,,    -0.054
C,RU-103    ,NO ,     2.138E+00,  3.020E+00,  5.247E+00,,     0.407
C,RU-106    ,NO ,    -1.011E+01,  2.325E+01,  3.930E+01,,    -0.257
C,AG-110m   ,NO ,     1.252E+00,  2.362E+00,  4.174E+00,,     0.300
C,SN-113    ,NO ,    -1.981E+00,  3.334E+00,  5.531E+00,,    -0.358
C,SB-124    ,NO ,     1.926E+00,  5.690E+00,  4.509E+00,,     0.427
C,SB-125    ,NO ,    -1.666E+00,  6.812E+00,  1.143E+01,,    -0.146
C,TE-129M   ,NO ,     1.759E+01,  3.668E+01,  6.310E+01,,     0.279
C,I-131     ,NO ,    -1.805E+00,  7.918E+00,  1.334E+01,,    -0.135
C,BA-133    ,NO ,    -1.018E+00,  3.323E+00,  5.582E+00,,    -0.182
C,CS-134    ,NO ,     4.745E-01,  4.306E+00,  4.358E+00,,     0.109
C,CS-136    ,NO ,    -7.218E-01,  4.585E+00,  7.812E+00,,    -0.092
C,CS-137    ,NO ,    -9.937E-01,  2.546E+00,  4.307E+00,,    -0.231
C,CE-139    ,NO ,    -4.237E-01,  2.734E+00,  4.543E+00,,    -0.093
C,BA-140    ,NO ,    -9.722E+00,  1.800E+01,  2.961E+01,,    -0.328
C,LA-140    ,NO ,    -2.126E+00,  5.481E+00,  9.431E+00,,    -0.225
C,CE-141    ,NO ,     8.887E+00,  6.725E+00,  9.914E+00,,     0.896
C,CE-144    ,NO ,     2.709E+00,  2.388E+01,  3.406E+01,,     0.080
C,EU-152    ,NO ,    -6.715E+00,  7.822E+00,  1.291E+01,,    -0.520
C,EU-154    ,NO ,    -3.636E-01,  5.359E+00,  8.976E+00,,    -0.041
C,RA-226    ,NO ,     2.986E+01,  6.951E+01,  1.110E+02,,     0.269
C,TH-228    ,NO ,     2.460E+00,  5.171E+00,  8.259E+00,,     0.298
C,U-235     ,NO ,     2.784E+01,  2.439E+01,  3.483E+01,,     0.799
C,U-238     ,NO ,     1.589E+02,  2.615E+02,  4.488E+02,,     0.354
C,AM-241    ,NO ,     1.131E+01,  1.684E+01,  2.407E+01,,     0.470
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 21:53:08.65
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 15-JUN-2006 16:52:50.72

LIMS No., Customer Name, Client ID: WG L28896-2 TMI

Smple Date: 6-JUN-2006 17:30:00.0
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 05:00:03.49
Live time : 0 05:00:00.00

Sample ID : 07L28896-2
Sample Type : WG
Quantity : 3.08030E+00 L
Start Channel : 40
End Channel : 4090
MDA Constant : 0.00

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

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.20*	142	734	1.55	132.96	8.00E-01	7.89E-03	40.6	2.73E+00
2	1	139.88*	124	454	1.70	280.45	2.36E+00	6.88E-03	35.1	1.48E+00
3	1	198.58*	85	385	1.21	397.93	2.24E+00	4.73E-03	47.9	1.08E+00
4	1	596.32	124	156	2.03	1193.80	1.10E+00	6.88E-03	23.8	7.96E-01
5	1	609.22*	100	145	2.58	1219.62	1.09E+00	5.55E-03	33.2	1.92E+00

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

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28896-2

Acquisition date : 15-JUN-2006 16:52:50

Total number of lines in spectrum	5	
Number of unidentified lines	5	
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 : 07L28896-2

Acquisition date : 15-JUN-2006 16:52:50

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.20	142	734	1.55	132.96	130	12	7.89E-03	81.3	8.00E-01	
1	139.88	124	454	1.70	280.45	276	9	6.88E-03	70.2	2.36E+00	
1	198.58	85	385	1.21	397.93	394	9	4.73E-03	95.7	2.24E+00	
1	596.32	124	156	2.03	1193.80	1188	15	6.88E-03	47.5	1.10E+00	
1	609.22	100	145	2.58	1219.62	1213	17	5.55E-03	66.5	1.09E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 5
Number of unidentified lines 5
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	1.801E+00		1.976E+01	3.229E+01	0.000E+00	0.056
NA-24	-3.817E-02		2.637E-02	Half-Life too short		
K-40	3.997E+01		3.245E+01	5.840E+01	0.000E+00	0.684
CR-51	-3.923E+01		2.228E+01	3.501E+01	0.000E+00	-1.120
MN-54	-8.744E-01		2.228E+00	3.608E+00	0.000E+00	-0.242
CO-57	-1.436E+00		2.109E+00	3.388E+00	0.000E+00	-0.424
CO-58	-1.190E+00		2.211E+00	3.554E+00	0.000E+00	-0.335
FE-59	3.725E+00		4.446E+00	7.730E+00	0.000E+00	0.482
CO-60	1.211E-01		2.221E+00	3.642E+00	0.000E+00	0.033
ZN-65	6.278E+00		4.770E+00	8.466E+00	0.000E+00	0.74
SE-75	5.062E-01		2.977E+00	4.887E+00	0.000E+00	0.10
SR-85	2.250E+01		2.877E+00	5.778E+00	0.000E+00	3.89
Y-88	-1.035E+00		2.516E+00	4.025E+00	0.000E+00	-0.25
NB-94	-3.394E-01		2.072E+00	3.354E+00	0.000E+00	-0.10
NB-95	3.995E-01		2.204E+00	3.696E+00	0.000E+00	0.10
ZR-95	-8.475E-01		4.098E+00	6.580E+00	0.000E+00	-0.12
MO-99	-1.185E+02		1.507E+02	2.343E+02	0.000E+00	-0.50
RU-103	3.012E+00		2.462E+00	4.206E+00	0.000E+00	0.71
RU-106	-1.971E-01		2.033E+01	3.343E+01	0.000E+00	-0.0
AG-110m	2.978E-01		2.111E+00	3.484E+00	0.000E+00	0.0
SN-113	-1.161E+00		2.833E+00	4.594E+00	0.000E+00	-0.2
SB-124	4.137E+00		4.667E+00	3.861E+00	0.000E+00	1.0
SB-125	1.315E+00		6.070E+00	1.003E+01	0.000E+00	0.1

TE-129M	3.281E+01	2.892E+01	4.933E+01	0.000E+00	0.665
I-131	1.173E-01	4.791E+00	7.929E+00	0.000E+00	0.015
BA-133	3.850E+00	3.124E+00	5.370E+00	0.000E+00	0.717
CS-134	7.472E+00	4.343E+00	4.015E+00	0.000E+00	1.861
CS-136	-3.357E+00	3.261E+00	5.088E+00	0.000E+00	-0.660
CS-137	1.644E+00	2.254E+00	3.826E+00	0.000E+00	0.430
CE-139	1.260E+00	2.142E+00	3.623E+00	0.000E+00	0.348
BA-140	5.060E+00	1.247E+01	2.105E+01	0.000E+00	0.240
LA-140	2.903E+00	3.990E+00	6.912E+00	0.000E+00	0.420
CE-141	5.417E+00	4.903E+00	7.045E+00	0.000E+00	0.769
CE-144	-1.967E+00	1.962E+01	2.708E+01	0.000E+00	-0.073
EU-152	-1.678E+01	6.906E+00	1.054E+01	0.000E+00	-1.592
EU-154	-4.305E+00	4.373E+00	6.967E+00	0.000E+00	-0.618
RA-226	3.828E+01	5.526E+01	9.164E+01	0.000E+00	0.418
AC-228	-6.871E-01	8.706E+00	1.362E+01	0.000E+00	-0.050
TH-228	4.405E+00	4.415E+00	7.310E+00	0.000E+00	0.603
TH-232	-6.850E-01	8.680E+00	1.358E+01	0.000E+00	-0.050
U-235	1.809E+01	1.905E+01	2.722E+01	0.000E+00	0.665
U-238	6.867E+01	2.345E+02	3.894E+02	0.000E+00	0.176
AM-241	-3.061E+01	2.214E+01	3.143E+01	0.000E+00	-0.974

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A,07L28896-2          ,06/15/2006 21:53,06/06/2006 17:30,   3.080E+00,WG L28896-2 TM
B,07L28896-2          ,LIBD                              ,06/07/2006 09:32,073L082504
C,BE-7     ,NO ,  1.801E+00,  1.976E+01,  3.229E+01,,   0.056
C,K-40     ,NO ,  3.997E+01,  3.245E+01,  5.840E+01,,   0.684
C,CR-51    ,NO , -3.923E+01,  2.228E+01,  3.501E+01,,  -1.120
C,MN-54    ,NO , -8.744E-01,  2.228E+00,  3.608E+00,,  -0.242
C,CO-57    ,NO , -1.436E+00,  2.109E+00,  3.388E+00,,  -0.424
C,CO-58    ,NO , -1.190E+00,  2.211E+00,  3.554E+00,,  -0.335
C,FE-59    ,NO ,  3.725E+00,  4.446E+00,  7.730E+00,,   0.482
C,CO-60    ,NO ,  1.211E-01,  2.221E+00,  3.642E+00,,   0.033
C,ZN-65    ,NO ,  6.278E+00,  4.770E+00,  8.466E+00,,   0.742
C,SE-75    ,NO ,  5.062E-01,  2.977E+00,  4.887E+00,,   0.104
C,SR-85    ,NO ,  2.250E+01,  2.877E+00,  5.778E+00,,   3.893
C,Y-88     ,NO , -1.035E+00,  2.516E+00,  4.025E+00,,  -0.257
C,NB-94    ,NO , -3.394E-01,  2.072E+00,  3.354E+00,,  -0.101
C,NB-95    ,NO ,  3.995E-01,  2.204E+00,  3.696E+00,,   0.108
C,ZR-95    ,NO , -8.475E-01,  4.098E+00,  6.580E+00,,  -0.129
C,MO-99    ,NO , -1.185E+02,  1.507E+02,  2.343E+02,,  -0.506
C,RU-103   ,NO ,  3.012E+00,  2.462E+00,  4.206E+00,,   0.716
C,RU-106   ,NO , -1.971E-01,  2.033E+01,  3.343E+01,,  -0.006
C,AG-110m  ,NO ,  2.978E-01,  2.111E+00,  3.484E+00,,   0.085
C,SN-113   ,NO , -1.161E+00,  2.833E+00,  4.594E+00,,  -0.253
C,SB-124   ,NO ,  4.137E+00,  4.667E+00,  3.861E+00,,   1.072
C,SB-125   ,NO ,  1.315E+00,  6.070E+00,  1.003E+01,,   0.131
C,TE-129M  ,NO ,  3.281E+01,  2.892E+01,  4.933E+01,,   0.665
C,I-131    ,NO ,  1.173E-01,  4.791E+00,  7.929E+00,,   0.015
C,BA-133   ,NO ,  3.850E+00,  3.124E+00,  5.370E+00,,   0.717
C,CS-134   ,NO ,  7.472E+00,  4.343E+00,  4.015E+00,,   1.861
C,CS-136   ,NO , -3.357E+00,  3.261E+00,  5.088E+00,,  -0.660
C,CS-137   ,NO ,  1.644E+00,  2.254E+00,  3.826E+00,,   0.430
C,CE-139   ,NO ,  1.260E+00,  2.142E+00,  3.623E+00,,   0.348
C,BA-140   ,NO ,  5.060E+00,  1.247E+01,  2.105E+01,,   0.240
C,LA-140   ,NO ,  2.903E+00,  3.990E+00,  6.912E+00,,   0.420
C,CE-141   ,NO ,  5.417E+00,  4.903E+00,  7.045E+00,,   0.769
C,CE-144   ,NO , -1.967E+00,  1.962E+01,  2.708E+01,,  -0.073
C,EU-152   ,NO , -1.678E+01,  6.906E+00,  1.054E+01,,  -1.592
C,EU-154   ,NO , -4.305E+00,  4.373E+00,  6.967E+00,,  -0.618
C,RA-226   ,NO ,  3.828E+01,  5.526E+01,  9.164E+01,,   0.418
C,AC-228   ,NO , -6.871E-01,  8.706E+00,  1.362E+01,,  -0.050
C,TH-228   ,NO ,  4.405E+00,  4.415E+00,  7.310E+00,,   0.603
C,TH-232   ,NO , -6.850E-01,  8.680E+00,  1.358E+01,,  -0.050
C,U-235    ,NO ,  1.809E+01,  1.905E+01,  2.722E+01,,   0.665
C,U-238    ,NO ,  6.867E+01,  2.345E+02,  3.894E+02,,   0.176
C,AM-241   ,NO , -3.061E+01,  2.214E+01,  3.143E+01,,  -0.974
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 22:40:39.81
TBE15 P-10635B HpGe ********** Aquisition Date/Time: 15-JUN-2006 16:52:57.36

LIMS No., Customer Name, Client ID: WG L28896-3 TMI

Sample ID : 15L28896-3
Sample Type : WG
Quantity : 3.09330E+00 L
Start Channel : 40
End Channel : 4090
MDA Constant : 0.00

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

Smple Date: 8-JUN-2006 15:50:00.0
Geometry : 153L082604
BKGFILE : 15BG060306MT
Real Time : 0 05:47:32.89
Live time : 0 05:47:30.73

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	139.57	118	538	1.47	267.30	1.66E+00	5.67E-03	35.2	9.24E-01
2	1	198.33	142	588	1.74	385.45	1.54E+00	6.81E-03	34.1	5.20E-01
3	1	295.28	175	342	2.42	580.32	1.18E+00	8.40E-03	23.2	1.33E+00
4	1	352.04*	118	294	1.55	694.42	1.02E+00	5.65E-03	31.9	1.61E+00
5	1	584.01	71	119	3.14	1160.56	6.65E-01	3.39E-03	33.3	1.99E+00
6	1	595.86	52	132	1.27	1184.36	6.54E-01	2.50E-03	43.4	1.29E+00
7	1	609.25	180	183	2.03	1211.27	6.42E-01	8.64E-03	17.5	5.39E+00
8	1	1120.46	41	36	1.62	2237.86	3.97E-01	1.99E-03	29.4	1.71E+00
9	1	1461.57*	122	83	2.86	2922.36	3.22E-01	5.85E-03	22.9	1.24E+00
10	1	1765.85	54	40	2.50	3532.63	2.77E-01	2.57E-03	31.0	9.90E-01
11	1	1931.85	15	14	0.70	3865.44	2.58E-01	7.22E-04	61.7	9.28E+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	122	10.67*	3.224E-01	1.485E+02	1.485E+02	45.84

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 15L28896-3

Acquisition date : 15-JUN-2006 16:52:57

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	1.485E+02	1.485E+02	0.681E+02	45.84	
Total Activity :			1.485E+02	1.485E+02			
Grand Total Activity :			1.485E+02	1.485E+02			

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

Acquisition date : 15-JUN-2006 16:52:57

Unidentified Energy Lines
Sample ID : 15L28896-3

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	139.57	118	538	1.47	267.30	264	8	5.67E-03	70.4	1.66E+00	
1	198.33	142	588	1.74	385.45	380	11	6.81E-03	68.2	1.54E+00	
1	295.28	175	342	2.42	580.32	574	13	8.40E-03	46.5	1.18E+00	
1	352.04	118	294	1.55	694.42	689	11	5.65E-03	63.8	1.02E+00	
1	584.01	71	119	3.14	1160.56	1155	12	3.39E-03	66.5	6.65E-01	T
1	595.86	52	132	1.27	1184.36	1180	10	2.50E-03	86.8	6.54E-01	
1	609.25	180	183	2.03	1211.27	1204	14	8.64E-03	34.9	6.42E-01	
1	1120.46	41	36	1.62	2237.86	2234	8	1.99E-03	58.7	3.97E-01	
1	1765.85	54	40	2.50	3532.63	3525	18	2.57E-03	62.0	2.77E-01	
1	1931.85	15	14	0.70	3865.44	3858	15	7.22E-04	****	2.58E-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	1.485E+02	1.485E+02	0.681E+02	45.84	
		Total Activity :	1.485E+02	1.485E+02			

Grand Total Activity : 1.485E+02 1.485E+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/M
K-40	1.485E+02	6.808E+01	5.307E+01	0.000E+00	2.7

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/!
	-1.714E+01		2.862E+01	4.580E+01	0.000E+00	-0.

NA-24	-2.370E+03	9.666E+03	1.566E+04	0.000E+00	-0.151
CR-51	-1.594E+01	3.137E+01	5.060E+01	0.000E+00	-0.315
MN-54	-5.012E-01	3.239E+00	5.299E+00	0.000E+00	-0.095
CO-57	7.254E-01	3.021E+00	4.790E+00	0.000E+00	0.151
CO-58	2.738E-01	3.380E+00	5.611E+00	0.000E+00	0.049
FE-59	6.209E+00	6.549E+00	1.141E+01	0.000E+00	0.544
CO-60	2.265E+00	3.195E+00	5.551E+00	0.000E+00	0.408
ZN-65	1.084E+01	7.028E+00	1.259E+01	0.000E+00	0.861
SE-75	-1.639E+00	4.052E+00	6.637E+00	0.000E+00	-0.247
SR-85	2.208E+01	3.822E+00	7.336E+00	0.000E+00	3.010
Y-88	-4.603E+00	3.473E+00	4.905E+00	0.000E+00	-0.939
NB-94	-4.416E-02	3.156E+00	5.156E+00	0.000E+00	-0.009
NB-95	4.628E+00	3.377E+00	5.966E+00	0.000E+00	0.776
ZR-95	-6.731E+00	6.200E+00	9.503E+00	0.000E+00	-0.708
MO-99	-4.404E+01	1.499E+02	2.404E+02	0.000E+00	-0.183
RU-103	6.962E-03	3.651E+00	5.972E+00	0.000E+00	0.001
RU-106	-9.388E+00	3.130E+01	4.896E+01	0.000E+00	-0.192
AG-110m	8.164E-01	3.173E+00	5.275E+00	0.000E+00	0.155
SN-113	3.279E+00	4.105E+00	7.000E+00	0.000E+00	0.468
SB-124	-7.478E+00	9.980E+00	5.928E+00	0.000E+00	-1.262
SB-125	6.420E+00	9.048E+00	1.532E+01	0.000E+00	0.419
TE-129M	-1.450E+01	4.050E+01	6.567E+01	0.000E+00	-0.221
I-131	5.431E+00	5.631E+00	9.463E+00	0.000E+00	0.574
BA-133	7.288E+00	5.218E+00	7.638E+00	0.000E+00	0.954
CS-134	2.550E+00	9.446E+00	6.657E+00	0.000E+00	0.383
CS-136	-2.519E+00	4.561E+00	7.315E+00	0.000E+00	-0.344
CS-137	2.032E+00	3.399E+00	5.741E+00	0.000E+00	0.354
CE-139	5.495E-01	2.898E+00	4.801E+00	0.000E+00	0.114
BA-140	4.271E-01	1.647E+01	2.683E+01	0.000E+00	0.016
LA-140	2.890E-01	5.382E+00	8.950E+00	0.000E+00	0.032
CE-141	4.610E+00	6.359E+00	9.193E+00	0.000E+00	0.502
CE-144	2.703E+01	2.512E+01	3.688E+01	0.000E+00	0.733
EU-152	-6.694E+00	1.175E+01	1.571E+01	0.000E+00	-0.426
EU-154	8.600E-01	6.203E+00	9.804E+00	0.000E+00	0.088
RA-226	-1.003E+01	7.764E+01	1.218E+02	0.000E+00	-0.082
AC-228	4.676E+00	1.200E+01	2.009E+01	0.000E+00	0.233
TH-228	6.431E+00	5.926E+00	9.628E+00	0.000E+00	0.66[illegible]
TH-232	4.665E+00	1.197E+01	2.004E+01	0.000E+00	0.23[illegible]
U-235	2.507E+01	2.537E+01	3.699E+01	0.000E+00	0.67[illegible]
U-238	1.968E+02	3.585E+02	6.131E+02	0.000E+00	0.32[illegible]
AM-241	-7.411E+01	3.279E+01	5.197E+01	0.000E+00	-1.42

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                                                                                  3.093E+00,WG L28896-3 TM
A,15L28896-3          ,06/15/2006 22:40,06/08/2006 15:50,
B,15L28896-3          ,LIBD                              ,06/14/2006 10:45,153L082604
C,K-40      ,YES,  1.485E+02,  6.808E+01,  5.307E+01,,  2.799
C,BE-7      ,NO ,  -1.714E+01,  2.862E+01,  4.580E+01,,  -0.374
C,NA-24     ,NO ,  -2.370E+03,  9.666E+03,  1.566E+04,,  -0.151
C,CR-51     ,NO ,  -1.594E+01,  3.137E+01,  5.060E+01,,  -0.315
C,MN-54     ,NO ,  -5.012E-01,  3.239E+00,  5.299E+00,,  -0.095
C,CO-57     ,NO ,   7.254E-01,  3.021E+00,  4.790E+00,,   0.151
C,CO-58     ,NO ,   2.738E-01,  3.380E+00,  5.611E+00,,   0.049
C,FE-59     ,NO ,   6.209E+00,  6.549E+00,  1.141E+01,,   0.544
C,CO-60     ,NO ,   2.265E+00,  3.195E+00,  5.551E+00,,   0.408
C,ZN-65     ,NO ,   1.084E+01,  7.028E+00,  1.259E+01,,   0.861
C,SE-75     ,NO ,  -1.639E+00,  4.052E+00,  6.637E+00,,  -0.247
C,SR-85     ,NO ,   2.208E+01,  3.822E+00,  7.336E+00,,   3.010
C,Y-88      ,NO ,  -4.603E+00,  3.473E+00,  4.905E+00,,  -0.939
C,NB-94     ,NO ,  -4.416E-02,  3.156E+00,  5.156E+00,,  -0.009
C,NB-95     ,NO ,   4.628E+00,  3.377E+00,  5.966E+00,,   0.776
C,ZR-95     ,NO ,  -6.731E+00,  6.200E+00,  9.503E+00,,  -0.708
C,MO-99     ,NO ,  -4.404E+01,  1.499E+02,  2.404E+02,,  -0.183
C,RU-103    ,NO ,   6.962E-03,  3.651E+00,  5.972E+00,,   0.001
C,RU-106    ,NO ,  -9.388E+00,  3.130E+01,  4.896E+01,,  -0.192
C,AG-110m   ,NO ,   8.164E-01,  3.173E+00,  5.275E+00,,   0.155
C,SN-113    ,NO ,   3.279E+00,  4.105E+00,  7.000E+00,,   0.468
C,SB-124    ,NO ,  -7.478E+00,  9.980E+00,  5.928E+00,,  -1.262
C,SB-125    ,NO ,   6.420E+00,  9.048E+00,  1.532E+01,,   0.419
C,TE-129M   ,NO ,  -1.450E+01,  4.050E+01,  6.567E+01,,  -0.221
C,I-131     ,NO ,   5.431E+00,  5.631E+00,  9.463E+00,,   0.574
C,BA-133    ,NO ,   7.288E+00,  5.218E+00,  7.638E+00,,   0.954
C,CS-134    ,NO ,   2.550E+00,  9.446E+00,  6.657E+00,,   0.383
C,CS-136    ,NO ,  -2.519E+00,  4.561E+00,  7.315E+00,,  -0.344
C,CS-137    ,NO ,   2.032E+00,  3.399E+00,  5.741E+00,,   0.354
C,CE-139    ,NO ,   5.495E-01,  2.898E+00,  4.801E+00,,   0.114
C,BA-140    ,NO ,   4.271E-01,  1.647E+01,  2.683E+01,,   0.016
C,LA-140    ,NO ,   2.890E-01,  5.382E+00,  8.950E+00,,   0.032
C,CE-141    ,NO ,   4.610E+00,  6.359E+00,  9.193E+00,,   0.502
C,CE-144    ,NO ,   2.703E+01,  2.512E+01,  3.688E+01,,   0.733
C,EU-152    ,NO ,  -6.694E+00,  1.175E+01,  1.571E+01,,  -0.426
C,EU-154    ,NO ,   8.600E-01,  6.203E+00,  9.804E+00,,   0.088
C,RA-226    ,NO ,  -1.003E+01,  7.764E+01,  1.218E+02,,  -0.082
C,AC-228    ,NO ,   4.676E+00,  1.200E+01,  2.009E+01,,   0.233
C,TH-228    ,NO ,   6.431E+00,  5.926E+00,  9.628E+00,,   0.668
C,TH-232    ,NO ,   4.665E+00,  1.197E+01,  2.004E+01,,   0.233
C,U-235     ,NO ,   2.507E+01,  2.537E+01,  3.699E+01,,   0.678
C,U-238     ,NO ,   1.968E+02,  3.585E+02,  6.131E+02,,   0.321
C,AM-241    ,NO ,  -7.411E+01,  3.279E+01,  5.197E+01,,  -1.426
```

Sec. Review: Analyst: KUS LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 22:00:39.40
TBE04 P-40312B HpGe ********** Aquisition Date/Time: 15-JUN-2006 17:00:22.00

LIMS No., Customer Name, Client ID: WG L28896-4 TMI

Smple Date: 7-JUN-2006 15:30:00.0

Sample ID : 04L28896-4
Sample Type : WG
Quantity : 3.03120E+00 L
Start Channel : 90
End Channel : 4090
MDA Constant : 0.00

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

Geometry : 043L082004
BKGFILE : 04BG060306MT
Real Time : 0 05:00:03.21
Live time : 0 05:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.28*	144	534	1.16	133.23	6.62E-01	7.99E-03	30.6	1.42E+00
2	1	92.92*	17	472	1.83	186.47	1.54E+00	9.27E-04	262.4	2.70E+00
3	1	140.05	128	425	1.21	280.68	2.04E+00	7.08E-03	29.9	4.35E+00
4	1	185.52*	23	385	1.85	371.58	1.92E+00	1.28E-03	171.4	1.02E+00
5	1	198.45*	58	448	1.53	397.43	1.86E+00	3.22E-03	76.8	2.23E+00
6	1	238.92*	43	317	0.97	478.33	1.68E+00	2.41E-03	82.1	3.78E+00
7	1	242.13	102	228	1.44	484.76	1.66E+00	5.67E-03	26.5	9.43E-01
8	1	295.27	117	288	1.14	590.99	1.45E+00	6.53E-03	28.1	3.84E+00
9	1	351.93*	290	304	1.30	704.25	1.28E+00	1.61E-02	14.8	1.05E+00
10	1	583.46*	49	91	2.02	1167.15	8.77E-01	2.74E-03	45.6	7.99E-01
11	1	595.79	63	123	2.75	1191.79	8.63E-01	3.48E-03	40.2	1.55E+00
12	1	609.49*	244	132	1.46	1219.19	8.48E-01	1.36E-02	13.0	2.32E+00
13	1	1120.18*	51	46	2.24	2240.31	5.27E-01	2.84E-03	34.3	2.27E+00
14	1	1351.42	63	16	9.35	2702.72	4.55E-01	3.49E-03	19.1	2.06E+00
15	1	1763.98*	35	21	2.23	3527.80	3.77E-01	1.94E-03	38.4	8.55E-01
16	1	1830.96	23	20	2.81	3661.76	3.68E-01	1.26E-03	47.3	9.54E-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
RA-226	186.21	23	3.28*	1.923E+00	1.814E+01	1.814E+01	342.87
TH-228	238.63	43	44.60*	1.678E+00	2.865E+00	2.889E+00	164.28
	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	23	54.00	1.923E+00	1.102E+00	1.102E+00	342.87
	205.31	------	4.70	1.833E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 04L28896-4

Acquisition date : 15-JUN-2006 17:00:22

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
RA-226	1600.00Y	1.00	1.814E+01	1.814E+01	6.219E+01	342.87	
TH-228	1.91Y	1.01	2.865E+00	2.889E+00	4.745E+00	164.28	
U-235	7.04E+08Y	1.00	1.102E+00	1.102E+00	3.777E+00	342.87	K
			---	---			
Total Activity :			2.211E+01	2.213E+01			

Grand Total Activity : 2.211E+01 2.213E+01

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

Unidentified Energy Lines
Sample ID : 04L28896-4

Acquisition date : 15-JUN-2006 17:00:22

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.28	144	534	1.16	133.23	129	8	7.99E-03	61.2	6.62E-01	
1	92.92	17	472	1.83	186.47	182	9	9.27E-04	****	1.54E+00	
1	140.05	128	425	1.21	280.68	277	8	7.08E-03	59.7	2.04E+00	
1	198.45	58	448	1.53	397.43	393	10	3.22E-03	****	1.86E+00	
1	242.13	102	228	1.44	484.76	482	7	5.67E-03	53.0	1.66E+00	
1	295.27	117	288	1.14	590.99	587	9	6.53E-03	56.2	1.45E+00	
1	351.93	290	304	1.30	704.25	697	14	1.61E-02	29.7	1.28E+00	
1	583.46	49	91	2.02	1167.15	1163	11	2.74E-03	91.1	8.77E-01	T
1	595.79	63	123	2.75	1191.79	1185	14	3.48E-03	80.4	8.63E-01	
1	609.49	244	132	1.46	1219.19	1215	13	1.36E-02	25.9	8.48E-01	
1	1120.18	51	46	2.24	2240.31	2231	14	2.84E-03	68.5	5.27E-01	
1	1351.42	63	16	9.35	2702.72	2695	21	3.49E-03	38.2	4.55E-01	
1	1763.98	35	21	2.23	3527.80	3520	14	1.94E-03	76.8	3.77E-01	
1	1830.96	23	20	2.81	3661.76	3651	16	1.26E-03	94.6	3.68E-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
RA-226	1600.00Y	1.00	1.814E+01	1.814E+01	6.219E+01	342.87	
TH-228	1.91Y	1.01	2.865E+00	2.889E+00	4.745E+00	164.28	
			---	---			
Total Activity :			2.100E+01	2.103E+01			

Grand Total Activity : 2.100E+01 2.103E+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/MI
RA-226	1.814E+01	6.219E+01	9.300E+01	0.000E+00	0.1
TH-228	2.889E+00	4.745E+00	7.615E+00	0.000E+00	0.3

--- Non-Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	8.646E+00		2.314E+01	3.890E+01	0.000E+00	0.222
NA-24	-3.243E-02		1.269E-02	Half-Life too short		
K-40	5.577E+00		3.909E+01	6.870E+01	0.000E+00	0.081
CR-51	-1.973E+01		2.598E+01	4.181E+01	0.000E+00	-0.472
MN-54	1.180E+00		2.721E+00	4.533E+00	0.000E+00	0.260
CO-57	3.235E-01		2.320E+00	3.798E+00	0.000E+00	0.085
CO-58	-3.912E-01		2.654E+00	4.285E+00	0.000E+00	-0.091
FE-59	5.446E+00		5.994E+00	1.031E+01	0.000E+00	0.528
CO-60	-3.388E-01		3.040E+00	4.709E+00	0.000E+00	-0.072
ZN-65	9.742E+00		7.428E+00	1.153E+01	0.000E+00	0.845
SE-75	1.893E+00		3.499E+00	5.766E+00	0.000E+00	0.328
SR-85	1.708E+01		3.272E+00	6.275E+00	0.000E+00	2.722
Y-88	-3.318E-01		3.898E+00	5.314E+00	0.000E+00	-0.062
NB-94	1.062E+00		2.580E+00	4.339E+00	0.000E+00	0.245
NB-95	2.859E+00		2.755E+00	4.766E+00	0.000E+00	0.600
ZR-95	-6.158E-01		4.748E+00	7.720E+00	0.000E+00	-0.080
MO-99	1.296E+02		1.459E+02	2.513E+02	0.000E+00	0.516
RU-103	4.259E+00		2.997E+00	5.235E+00	0.000E+00	0.814
RU-106	-1.878E+00		2.476E+01	3.873E+01	0.000E+00	-0.048
AG-110m	7.197E-01		2.429E+00	4.089E+00	0.000E+00	0.176
SN-113	-1.177E+00		3.470E+00	5.575E+00	0.000E+00	-0.211
SB-124	1.018E+00		6.202E+00	4.608E+00	0.000E+00	0.221
SB-125	2.822E+00		7.259E+00	1.229E+01	0.000E+00	0.230
TE-129M	3.110E+00		3.355E+01	5.586E+01	0.000E+00	0.056
I-131	1.239E+00		5.159E+00	8.529E+00	0.000E+00	0.145
BA-133	1.134E+01		4.416E+00	6.927E+00	0.000E+00	1.636
CS-134	1.033E+01		5.917E+00	5.498E+00	0.000E+00	1.878
CS-136	-1.601E+00		3.788E+00	6.003E+00	0.000E+00	-0.267
CS-137	-5.149E-01		2.707E+00	4.439E+00	0.000E+00	-0.116
CE-139	5.333E-04		2.344E+00	3.905E+00	0.000E+00	0.000
BA-140	2.539E+00		1.345E+01	2.226E+01	0.000E+00	0.114
LA-140	4.574E+00		4.430E+00	7.922E+00	0.000E+00	0.577
CE-141	-3.804E-01		5.530E+00	7.610E+00	0.000E+00	-0.050
CE-144	-1.004E+01		2.051E+01	2.917E+01	0.000E+00	-0.344
EU-152	-1.039E+00		9.174E+00	1.272E+01	0.000E+00	-0.082
EU-154	1.201E+00		4.792E+00	7.864E+00	0.000E+00	0.153
AC-228	3.952E+00		1.087E+01	1.776E+01	0.000E+00	0.223
TH-232	3.942E+00		1.084E+01	1.771E+01	0.000E+00	0.223
U-235	3.898E+00		2.101E+01	2.923E+01	0.000E+00	0.133
U-238	2.660E+02		2.857E+02	4.963E+02	0.000E+00	0.536
AM-241	-2.062E+00		2.614E+01	3.954E+01	0.000E+00	-0.052

```
A,04L28896-4          ,06/15/2006 22:00,06/07/2006 15:30,   3.031E+00,WG L28896-4 TM
B,04L28896-4          ,LIBD                ,06/13/2006 09:42,043L082004
C,RA-226    ,YES,  1.814E+01,  6.219E+01,  9.300E+01,,  0.195
C,TH-228    ,YES,  2.889E+00,  4.745E+00,  7.615E+00,,  0.379
C,BE-7      ,NO ,  8.646E+00,  2.314E+01,  3.890E+01,,  0.222
C,K-40      ,NO ,  5.577E+00,  3.909E+01,  6.870E+01,,  0.081
C,CR-51     ,NO , -1.973E+01,  2.598E+01,  4.181E+01,, -0.472
C,MN-54     ,NO ,  1.180E+00,  2.721E+00,  4.533E+00,,  0.260
C,CO-57     ,NO ,  3.235E-01,  2.320E+00,  3.798E+00,,  0.085
C,CO-58     ,NO , -3.912E-01,  2.654E+00,  4.285E+00,, -0.091
C,FE-59     ,NO ,  5.446E+00,  5.994E+00,  1.031E+01,,  0.528
C,CO-60     ,NO , -3.388E-01,  3.040E+00,  4.709E+00,, -0.072
C,ZN-65     ,NO ,  9.742E+00,  7.428E+00,  1.153E+01,,  0.845
C,SE-75     ,NO ,  1.893E+00,  3.499E+00,  5.766E+00,,  0.328
C,SR-85     ,NO ,  1.708E+01,  3.272E+00,  6.275E+00,,  2.722
C,Y-88      ,NO , -3.318E-01,  3.898E+00,  5.314E+00,, -0.062
C,NB-94     ,NO ,  1.062E+00,  2.580E+00,  4.339E+00,,  0.245
C,NB-95     ,NO ,  2.859E+00,  2.755E+00,  4.766E+00,,  0.600
C,ZR-95     ,NO , -6.158E-01,  4.748E+00,  7.720E+00,, -0.080
C,MO-99     ,NO ,  1.296E+02,  1.459E+02,  2.513E+02,,  0.516
C,RU-103    ,NO ,  4.259E+00,  2.997E+00,  5.235E+00,,  0.814
C,RU-106    ,NO , -1.878E+00,  2.476E+01,  3.873E+01,, -0.048
C,AG-110m   ,NO ,  7.197E-01,  2.429E+00,  4.089E+00,,  0.176
C,SN-113    ,NO , -1.177E+00,  3.470E+00,  5.575E+00,, -0.211
C,SB-124    ,NO ,  1.018E+00,  6.202E+00,  4.608E+00,,  0.221
C,SB-125    ,NO ,  2.822E+00,  7.259E+00,  1.229E+01,,  0.230
C,TE-129M   ,NO ,  3.110E+00,  3.355E+01,  5.586E+01,,  0.056
C,I-131     ,NO ,  1.239E+00,  5.159E+00,  8.529E+00,,  0.145
C,BA-133    ,NO ,  1.134E+01,  4.416E+00,  6.927E+00,,  1.636
C,CS-134    ,NO ,  1.033E+01,  5.917E+00,  5.498E+00,,  1.878
C,CS-136    ,NO , -1.601E+00,  3.788E+00,  6.003E+00,, -0.267
C,CS-137    ,NO , -5.149E-01,  2.707E+00,  4.439E+00,, -0.116
C,CE-139    ,NO ,  5.333E-04,  2.344E+00,  3.905E+00,,  0.000
C,BA-140    ,NO ,  2.539E+00,  1.345E+01,  2.226E+01,,  0.114
C,LA-140    ,NO ,  4.574E+00,  4.430E+00,  7.922E+00,,  0.577
C,CE-141    ,NO , -3.804E-01,  5.530E+00,  7.610E+00,, -0.050
C,CE-144    ,NO , -1.004E+01,  2.051E+01,  2.917E+01,, -0.344
C,EU-152    ,NO , -1.039E+00,  9.174E+00,  1.272E+01,, -0.082
C,EU-154    ,NO ,  1.201E+00,  4.792E+00,  7.864E+00,,  0.153
C,AC-228    ,NO ,  3.952E+00,  1.087E+01,  1.776E+01,,  0.223
C,TH-232    ,NO ,  3.942E+00,  1.084E+01,  1.771E+01,,  0.223
C,U-235     ,NO ,  3.898E+00,  2.101E+01,  2.923E+01,,  0.133
C,U-238     ,NO ,  2.660E+02,  2.857E+02,  4.963E+02,,  0.536
C,AM-241    ,NO , -2.062E+00,  2.614E+01,  3.954E+01,, -0.052
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Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 22:00:49.40
TBE13 P-10727B HpGe ********** Aquisition Date/Time: 15-JUN-2006 17:00:26.97

LIMS No., Customer Name, Client ID: WG L28896-5 TMI

Sample ID : 13L28896-5
Sample Type : WG
Quantity : 3.06210E+00 L
Start Channel : 25
End Channel : 4090
MDA Constant : 0.00

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

Smple Date: 7-JUN-2006 12:45:00.0
Geometry : 133L082404
BKGFILE : 13BG060306MT
Real Time : 0 05:00:05.06
Live time : 0 05:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	46.79*	35	394	1.69	93.55	1.65E-01	1.97E-03	109.4	1.59E+00
2	1	63.43*	37	576	0.86	126.83	7.12E-01	2.08E-03	122.9	3.07E-01
3	1	66.63	90	713	1.64	133.23	8.40E-01	4.98E-03	55.3	3.87E-01
4	1	84.52*	6	574	1.29	169.00	1.50E+00	3.57E-04	710.5	1.15E+00
5	1	139.84*	82	530	1.10	279.65	2.27E+00	4.57E-03	53.6	5.54E-01
6	1	144.16*	28	487	0.73	288.28	2.28E+00	1.54E-03	152.0	5.67E+00
7	1	185.38*	16	444	1.10	370.74	2.18E+00	8.62E-04	290.3	6.95E+00
8	1	198.35*	116	523	1.26	396.68	2.12E+00	6.42E-03	40.8	1.03E+00
9	1	238.29*	78	308	1.04	476.57	1.94E+00	4.31E-03	49.1	9.21E+00
10	1	351.90*	53	206	2.07	703.81	1.51E+00	2.96E-03	61.2	1.06E+00
11	1	583.11*	59	99	1.45	1166.35	1.04E+00	3.27E-03	41.4	5.55E-01
12	1	595.72	83	178	2.81	1191.59	1.02E+00	4.61E-03	36.4	3.01E+00
13	1	608.67*	46	184	1.69	1217.49	1.01E+00	2.57E-03	75.1	1.47E+00
14	1	911.18*	4	82	1.76	1822.80	7.36E-01	2.32E-04	518.8	1.56E+00
15	1	1461.43*	20	60	1.96	2924.16	5.14E-01	1.08E-03	124.9	1.72E+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	20	10.67*	5.142E-01	1.744E+01	1.744E+01	249.87
RA-226	186.21	16	3.28*	2.180E+00	1.064E+01	1.064E+01	580.62
	835.50	------	1.75	7.877E-01	------	Line Not Found	------
AC-228	911.07	4	27.70*	7.360E-01	1.003E+00	1.006E+00	1037.51
	238.63	78	44.60*	1.940E+00	4.395E+00	4.431E+00	98.14
TH-228	240.98	------	3.95	1.927E+00	------	Line Not Found	------
	583.14	59	30.25	1.040E+00	9.181E+00	9.181E+00	82.82
TH-232	911.07	4	27.70*	7.360E-01	1.003E+00	1.003E+00	1037.51
	969.11	------	16.60	7.014E-01	------	Line Not Found	------
U-235	143.76	28	10.50*	2.278E+00	5.676E+00	5.676E+00	303.95
	163.35	------	4.70	2.256E+00	------	Line Not Found	------
	185.71	16	54.00	2.180E+00	6.461E-01	6.461E-01	580.62
	205.31	------	4.70	2.093E+00	------	Line Not Found	------

Nuclide Type: fission

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
CE-141	145.44	28	48.40*	2.278E+00	1.231E+00	1.469E+00	303.95

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 13L28896-5

Acquisition date : 15-JUN-2006 17:00:26

Total number of lines in spectrum	15	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	6	40.00%

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	1.744E+01	1.744E+01	4.357E+01	249.87	
RA-226	1600.00Y	1.00	1.064E+01	1.064E+01	6.176E+01	580.62	
AC-228	5.75Y	1.00	1.003E+00	1.006E+00	10.43E+00	1037.51	
TH-228	1.91Y	1.01	4.395E+00	4.431E+00	4.348E+00	98.14	
TH-232	1.41E+10Y	1.00	1.003E+00	1.003E+00	10.40E+00	1037.51	
U-235	7.04E+08Y	1.00	5.676E+00	5.676E+00	17.25E+00	303.95	
Total Activity :			4.015E+01	4.019E+01			

Nuclide Type : fission

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CE-141	32.50D	1.19	1.231E+00	1.469E+00	4.466E+00	303.95	
Total Activity :			1.231E+00	1.469E+00			

Grand Total Activity : 4.138E+01 4.166E+01

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

Unidentified Energy Lines
Sample ID : 13L28896-5

Acquisition date : 15-JUN-2006 17:00:26

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	46.79	35	394	1.69	93.55	90	8	1.97E-03	****	1.65E-01	
1	63.43	37	576	0.86	126.83	123	7	2.08E-03	****	7.12E-01	
1	66.63	90	713	1.64	133.23	131	9	4.98E-03	****	8.40E-01	
1	84.52	6	574	1.29	169.00	165	8	3.57E-04	****	1.50E+00	
1	139.84	82	530	1.10	279.65	276	8	4.57E-03	****	2.27E+00	
1	198.35	116	523	1.26	396.68	392	10	6.42E-03	81.6	2.12E+00	
1	351.90	53	206	2.07	703.81	700	10	2.96E-03	****	1.51E+00	
1	595.72	83	178	2.81	1191.59	1184	14	4.61E-03	72.8	1.02E+00	
1	608.67	46	184	1.69	1217.49	1209	16	2.57E-03	****	1.01E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	15	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	6	40.00%

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	1.744E+01	1.744E+01	4.357E+01	249.87	
RA-226	1600.00Y	1.00	1.064E+01	1.064E+01	6.176E+01	580.62	
TH-228	1.91Y	1.01	4.395E+00	4.431E+00	4.348E+00	98.14	
TH-232	1.41E+10Y	1.00	6.334E+00	6.334E+00	6.139E+00	96.93	
U-235	7.04E+08Y	1.00	5.676E+00	5.676E+00	17.25E+00	303.95	
			---	---			
Total Activity :			4.448E+01	4.451E+01			

Nuclide Type : fission

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CE-141	32.50D	1.19	1.231E+00	1.469E+00	4.466E+00	303.95	
			---	---			
Total Activity :			1.231E+00	1.469E+00			

Grand Total Activity : 4.571E+01 4.598E+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

Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	1.744E+01	4.357E+01	3.802E+01	0.000E+00	0.459
CE-141	1.469E+00	4.466E+00	7.109E+00	0.000E+00	0.207
RA-226	1.064E+01	6.176E+01	8.845E+01	0.000E+00	0.120
TH-228	4.431E+00	4.348E+00	6.556E+00	0.000E+00	0.676
TH-232	6.334E+00	6.139E+00	1.359E+01	0.000E+00	0.466
U-235	5.676E+00	1.725E+01	2.696E+01	0.000E+00	0.211

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	9.855E+00		2.191E+01	3.616E+01	0.000E+00	0.273
NA-24	-7.319E-03		1.154E-02	Half-Life too short		
CR-51	-5.512E+00		2.352E+01	3.887E+01	0.000E+00	-0.142
MN-54	-1.496E-01		2.370E+00	3.880E+00	0.000E+00	-0.039
CO-57	-4.374E-01		2.224E+00	3.626E+00	0.000E+00	-0.121
CO-58	-2.788E+00		2.567E+00	3.984E+00	0.000E+00	-0.700
FE-59	2.596E+00		5.007E+00	8.496E+00	0.000E+00	0.306
CO-60	-8.447E-02		2.568E+00	4.236E+00	0.000E+00	-0.020
ZN-65	4.805E+00		5.169E+00	8.960E+00	0.000E+00	0.536
SE-75	-2.523E+00		3.164E+00	5.030E+00	0.000E+00	-0.502
SR-85	1.984E+01		3.037E+00	5.945E+00	0.000E+00	3.337
Y-88	-3.700E+00		2.799E+00	4.045E+00	0.000E+00	-0.915
NB-94	6.760E-01		2.270E+00	3.830E+00	0.000E+00	0.176
NB-95	1.616E+00		2.449E+00	4.183E+00	0.000E+00	0.386
ZR-95	-2.673E+00		4.270E+00	6.834E+00	0.000E+00	-0.391
MO-99	3.382E+01		1.329E+02	2.232E+02	0.000E+00	0.152
RU-103	1.273E+00		2.643E+00	4.479E+00	0.000E+00	0.284
RU-106	8.013E+00		2.180E+01	3.631E+01	0.000E+00	0.221
AG-110m	-2.521E-01		2.397E+00	3.886E+00	0.000E+00	-0.065
SN-113	3.040E-02		2.997E+00	4.926E+00	0.000E+00	0.006
SB-124	3.375E+00		4.840E+00	4.018E+00	0.000E+00	0.84
SB-125	3.877E+00		6.733E+00	1.124E+01	0.000E+00	0.34
TE-129M	7.815E+00		3.058E+01	5.022E+01	0.000E+00	0.15
I-131	2.103E+00		4.634E+00	7.773E+00	0.000E+00	0.27
BA-133	2.230E+00		3.535E+00	5.134E+00	0.000E+00	0.43
CS-134	6.206E+00		3.975E+00	4.227E+00	0.000E+00	1.46
CS-136	1.416E+00		3.513E+00	5.904E+00	0.000E+00	0.24
CS-137	1.679E+00		2.727E+00	4.374E+00	0.000E+00	0.38
CE-139	-1.297E+00		2.314E+00	3.673E+00	0.000E+00	-0.35
BA-140	-3.971E+00		1.185E+01	1.931E+01	0.000E+00	-0.2
LA-140	-2.396E+00		4.443E+00	6.921E+00	0.000E+00	-0.3
CE-144	-1.167E+01		1.936E+01	2.764E+01	0.000E+00	-0.4
EU-152	-6.417E+00		8.171E+00	1.183E+01	0.000E+00	-0.5
EU-154	-2.534E+00		4.635E+00	7.491E+00	0.000E+00	-0.3
AC-228	1.006E+00		1.043E+01	1.585E+01	0.000E+00	0.0
U-238	3.813E+01		2.743E+02	4.314E+02	0.000E+00	0.0
AM-241	9.280E-01		2.168E+01	3.028E+01	0.000E+00	0.0

```
A,13L28896-5          ,06/15/2006 22:00,06/07/2006 12:45,    3.062E+00,WG L28896-5 TM
B,13L28896-5          ,LIBD                              ,06/13/2006 09:43,133L082404
C,K-40      ,YES,  1.744E+01,  4.357E+01,  3.802E+01,,  0.459
C,CE-141    ,YES,  1.469E+00,  4.466E+00,  7.109E+00,,  0.207
C,RA-226    ,YES,  1.064E+01,  6.176E+01,  8.845E+01,,  0.120
C,TH-228    ,YES,  4.431E+00,  4.348E+00,  6.556E+00,,  0.676
C,TH-232    ,YES,  6.334E+00,  6.139E+00,  1.359E+01,,  0.466
C,U-235     ,YES,  5.676E+00,  1.725E+01,  2.696E+01,,  0.211
C,BE-7      ,NO ,  9.855E+00,  2.191E+01,  3.616E+01,,  0.273
C,CR-51     ,NO , -5.512E+00,  2.352E+01,  3.887E+01,, -0.142
C,MN-54     ,NO , -1.496E-01,  2.370E+00,  3.880E+00,, -0.039
C,CO-57     ,NO , -4.374E-01,  2.224E+00,  3.626E+00,, -0.121
C,CO-58     ,NO , -2.788E+00,  2.567E+00,  3.984E+00,, -0.700
C,FE-59     ,NO ,  2.596E+00,  5.007E+00,  8.496E+00,,  0.306
C,CO-60     ,NO , -8.447E-02,  2.568E+00,  4.236E+00,, -0.020
C,ZN-65     ,NO ,  4.805E+00,  5.169E+00,  8.960E+00,,  0.536
C,SE-75     ,NO , -2.523E+00,  3.164E+00,  5.030E+00,, -0.502
C,SR-85     ,NO ,  1.984E+01,  3.037E+00,  5.945E+00,,  3.337
C,Y-88      ,NO , -3.700E+00,  2.799E+00,  4.045E+00,, -0.915
C,NB-94     ,NO ,  6.760E-01,  2.270E+00,  3.830E+00,,  0.176
C,NB-95     ,NO ,  1.616E+00,  2.449E+00,  4.183E+00,,  0.386
C,ZR-95     ,NO , -2.673E+00,  4.270E+00,  6.834E+00,, -0.391
C,MO-99     ,NO ,  3.382E+01,  1.329E+02,  2.232E+02,,  0.152
C,RU-103    ,NO ,  1.273E+00,  2.643E+00,  4.479E+00,,  0.284
C,RU-106    ,NO ,  8.013E+00,  2.180E+01,  3.631E+01,,  0.221
C,AG-110m   ,NO , -2.521E-01,  2.397E+00,  3.886E+00,, -0.065
C,SN-113    ,NO ,  3.040E-02,  2.997E+00,  4.926E+00,,  0.006
C,SB-124    ,NO ,  3.375E+00,  4.840E+00,  4.018E+00,,  0.840
C,SB-125    ,NO ,  3.877E+00,  6.733E+00,  1.124E+01,,  0.345
C,TE-129M   ,NO ,  7.815E+00,  3.058E+01,  5.022E+01,,  0.156
C,I-131     ,NO ,  2.103E+00,  4.634E+00,  7.773E+00,,  0.270
C,BA-133    ,NO ,  2.230E+00,  3.535E+00,  5.134E+00,,  0.434
C,CS-134    ,NO ,  6.206E+00,  3.975E+00,  4.227E+00,,  1.468
C,CS-136    ,NO ,  1.416E+00,  3.513E+00,  5.904E+00,,  0.240
C,CS-137    ,NO ,  1.679E+00,  2.727E+00,  4.374E+00,,  0.384
C,CE-139    ,NO , -1.297E+00,  2.314E+00,  3.673E+00,, -0.353
C,BA-140    ,NO , -3.971E+00,  1.185E+01,  1.931E+01,, -0.206
C,LA-140    ,NO , -2.396E+00,  4.443E+00,  6.921E+00,, -0.346
C,CE-144    ,NO , -1.167E+01,  1.936E+01,  2.764E+01,, -0.422
C,EU-152    ,NO , -6.417E+00,  8.171E+00,  1.183E+01,, -0.542
C,EU-154    ,NO , -2.534E+00,  4.635E+00,  7.491E+00,, -0.338
C,AC-228    ,NO ,  1.006E+00,  1.043E+01,  1.585E+01,,  0.063
C,U-238     ,NO ,  3.813E+01,  2.743E+02,  4.314E+02,,  0.088
C,AM-241    ,NO ,  9.280E-01,  2.168E+01,  3.028E+01,,  0.031
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 22:42:45.39
TBE10 12892256 HpGe ********** Aquisition Date/Time: 15-JUN-2006 18:12:34.81

LIMS No., Customer Name, Client ID: WG L28896-6

Sample ID : 10L28896-6
Sample Type : WG
Quantity : 3.12140E+00 L
Start Channel : 80 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 7-JUN-2006 11:30:00.0
Geometry : 103L083004
BKGFILE : 10BG060306MT
Real Time : 0 04:30:02.61
Live time : 0 04:30:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.19*	60	588	1.73	131.79	7.22E-01	3.68E-03	77.5	2.18E+00
2	1	139.77	122	444	0.81	279.01	1.91E+00	7.54E-03	30.9	1.16E+00
3	1	185.92*	4	329	1.05	371.37	1.77E+00	2.18E-04*****		1.59E+00
4	1	198.27*	87	370	1.28	396.08	1.72E+00	5.35E-03	45.1	9.64E-01
5	1	238.79*	45	315	1.39	477.17	1.54E+00	2.81E-03	82.4	9.33E-01
6	1	351.75*	13	229	1.17	703.23	1.17E+00	8.13E-04	243.1	1.14E+00
7	1	583.35*	12	99	1.67	1166.79	7.98E-01	7.31E-04	181.7	6.71E-01
8	1	596.51	90	126	2.42	1193.14	7.85E-01	5.55E-03	29.3	1.60E+00
9	1	608.93*	28	147	1.68	1218.00	7.73E-01	1.73E-03	103.8	2.49E+00
10	1	910.68*	29	71	2.31	1822.13	5.65E-01	1.82E-03	70.7	1.08E+00
11	1	969.67*	39	32	3.60	1940.25	5.37E-01	2.39E-03	40.4	1.26E+00
12	1	1120.43*	14	47	1.59	2242.16	4.79E-01	8.86E-04	118.0	1.11E+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
RA-226	186.21	4	3.28*	1.770E+00	3.256E+00	3.256E+00	2012.51
AC-228	835.50	------	1.75	6.047E-01	------	Line Not Found	------
	911.07	29	27.70*	5.649E-01	1.007E+01	1.009E+01	141.38
TH-228	238.63	45	44.60*	1.538E+00	3.544E+00	3.574E+00	164.80
	240.98	------	3.95	1.529E+00	------	Line Not Found	------
TH-232	583.14	12	30.25	7.985E-01	2.620E+00	2.620E+00	363.40
	911.07	29	27.70*	5.649E-01	1.007E+01	1.007E+01	141.38
	969.11	39	16.60	5.374E-01	2.322E+01	2.322E+01	80.72
U-235	143.76	------	10.50*	1.905E+00	------	Line Not Found	------
	163.35	------	4.70	1.860E+00	------	Line Not Found	------
	185.71	4	54.00	1.770E+00	1.978E-01	1.978E-01	2012.51
	205.31	------	4.70	1.684E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L28896-6

Acquisition date : 15-JUN-2006 18:12:34

Total number of lines in spectrum	12	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	5	41.67%

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	3.256E+00	3.256E+00	65.53E+00	2012.51	
AC-228	5.75Y	1.00	1.007E+01	1.009E+01	1.427E+01	141.38	
TH-228	1.91Y	1.01	3.544E+00	3.574E+00	5.890E+00	164.80	
TH-232	1.41E+10Y	1.00	1.007E+01	1.007E+01	1.423E+01	141.38	
U-235	7.04E+08Y	1.00	1.978E-01	1.978E-01	39.80E-01	2012.51	K
			---	---			
Total Activity :			2.713E+01	2.719E+01			

Grand Total Activity : 2.713E+01 2.719E+01

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

Unidentified Energy Lines
Sample ID : 10L28896-6

Acquisition date : 15-JUN-2006 18:12:34

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.19	60	588	1.73	131.79	128	9	3.68E-03	****	7.22E-01	
1	139.77	122	444	0.81	279.01	275	8	7.54E-03	61.7	1.91E+00	
1	198.27	87	370	1.28	396.08	391	9	5.35E-03	90.2	1.72E+00	
1	351.75	13	229	1.17	703.23	698	11	8.13E-04	****	1.17E+00	
1	596.51	90	126	2.42	1193.14	1185	15	5.55E-03	58.6	7.85E-01	
1	608.93	28	147	1.68	1218.00	1211	15	1.73E-03	****	7.73E-01	
1	1120.43	14	47	1.59	2242.16	2236	14	8.86E-04	****	4.79E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	12	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	5	41.67%

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	3.256E+00	3.256E+00	65.53E+00	2012.51	
AC-228	5.75Y	1.00	3.222E+00	3.231E+00	16.62E+00	514.31	
TH-228	1.91Y	1.01	3.544E+00	3.574E+00	5.890E+00	164.80	
TH-232	1.41E+10Y	1.00	6.844E+00	6.844E+00	8.488E+00	124.02	
			---	---			
Total Activity :			1.687E+01	1.690E+01			

Grand Total Activity : 1.687E+01 1.690E+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/MI
RA-226	3.256E+00	6.553E+01	1.100E+02	0.000E+00	0.0
AC-228	3.231E+00	1.662E+01	1.791E+01	0.000E+00	0.1
TH-228	3.574E+00	5.890E+00	8.540E+00	0.000E+00	0.4
TH-232	6.844E+00	8.488E+00	2.083E+01	0.000E+00	0.3

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	8.843E+00		2.592E+01	4.376E+01	0.000E+00	0.202
NA-24	7.829E-03		1.649E-02	Half-Life too short		
K-40	2.581E+00		4.329E+01	7.896E+01	0.000E+00	0.033
CR-51	-2.196E+01		3.091E+01	4.873E+01	0.000E+00	-0.451
MN-54	-1.706E+00		2.938E+00	4.606E+00	0.000E+00	-0.370
CO-57	6.271E-01		2.639E+00	4.413E+00	0.000E+00	0.142
CO-58	-4.185E+00		3.110E+00	4.634E+00	0.000E+00	-0.903
FE-59	1.326E-02		6.252E+00	1.037E+01	0.000E+00	0.001
CO-60	-2.106E-01		3.030E+00	4.910E+00	0.000E+00	-0.043
ZN-65	1.078E+01		7.444E+00	1.186E+01	0.000E+00	0.909
SE-75	-1.005E+00		3.978E+00	6.472E+00	0.000E+00	-0.155
SR-85	1.822E+01		3.589E+00	6.947E+00	0.000E+00	2.622
Y-88	6.747E-01		3.206E+00	5.379E+00	0.000E+00	0.125
NB-94	2.207E+00		2.876E+00	4.940E+00	0.000E+00	0.447
NB-95	1.570E+00		3.077E+00	5.199E+00	0.000E+00	0.302
ZR-95	-3.808E+00		5.670E+00	8.946E+00	0.000E+00	-0.426
MO-99	-2.938E+01		1.789E+02	2.916E+02	0.000E+00	-0.101
RU-103	3.492E-01		3.394E+00	5.653E+00	0.000E+00	0.062
RU-106	-1.464E+01		2.832E+01	4.274E+01	0.000E+00	-0.342
AG-110m	7.155E-01		2.786E+00	4.692E+00	0.000E+00	0.152
SN-113	-7.211E-01		3.923E+00	6.400E+00	0.000E+00	-0.113
SB-124	1.364E+00		7.452E+00	5.361E+00	0.000E+00	0.255
SB-125	6.804E-01		8.023E+00	1.315E+01	0.000E+00	0.052
TE-129M	-1.113E+01		3.850E+01	6.168E+01	0.000E+00	-0.180
I-131	1.498E+00		5.932E+00	9.899E+00	0.000E+00	0.151
BA-133	3.262E+00		4.777E+00	6.950E+00	0.000E+00	0.469
CS-134	6.461E+00		6.970E+00	5.687E+00	0.000E+00	1.136
CS-136	2.777E+00		4.203E+00	7.152E+00	0.000E+00	0.388
CS-137	1.861E+00		3.115E+00	5.334E+00	0.000E+00	0.349
CE-139	-2.052E-01		2.789E+00	4.548E+00	0.000E+00	-0.045
BA-140	-7.098E+00		1.599E+01	2.577E+01	0.000E+00	-0.275
LA-140	6.475E+00		5.400E+00	9.749E+00	0.000E+00	0.664
CE-141	6.208E+00		5.998E+00	8.771E+00	0.000E+00	0.708
CE-144	-2.305E+01		2.429E+01	3.310E+01	0.000E+00	-0.696
EU-152	-8.420E+00		1.100E+01	1.481E+01	0.000E+00	-0.569
EU-154	-6.527E-01		5.498E+00	9.112E+00	0.000E+00	-0.07
U-235	1.132E+01		2.364E+01	3.385E+01	0.000E+00	0.33
U-238	-7.707E+01		3.157E+02	5.084E+02	0.000E+00	-0.15
AM-241	-1.545E+01		2.368E+01	3.558E+01	0.000E+00	-0.43

```
A,10L28896-6        ,06/15/2006 22:42,06/07/2006 11:30,   3.121E+00,WG L28896-6
B,10L28896-6        ,LIBD                ,06/13/2006 09:42,103L083004
C,RA-226   ,YES,  3.256E+00,  6.553E+01,  1.100E+02,,   0.030
C,AC-228   ,YES,  3.231E+00,  1.662E+01,  1.791E+01,,   0.180
C,TH-228   ,YES,  3.574E+00,  5.890E+00,  8.540E+00,,   0.418
C,TH-232   ,YES,  6.844E+00,  8.488E+00,  2.083E+01,,   0.329
C,BE-7     ,NO ,  8.843E+00,  2.592E+01,  4.376E+01,,   0.202
C,K-40     ,NO ,  2.581E+00,  4.329E+01,  7.896E+01,,   0.033
C,CR-51    ,NO , -2.196E+01,  3.091E+01,  4.873E+01,,  -0.451
C,MN-54    ,NO , -1.706E+00,  2.938E+00,  4.606E+00,,  -0.370
C,CO-57    ,NO ,  6.271E-01,  2.639E+00,  4.413E+00,,   0.142
C,CO-58    ,NO , -4.185E+00,  3.110E+00,  4.634E+00,,  -0.903
C,FE-59    ,NO ,  1.326E-02,  6.252E+00,  1.037E+01,,   0.001
C,CO-60    ,NO , -2.106E-01,  3.030E+00,  4.910E+00,,  -0.043
C,ZN-65    ,NO ,  1.078E+01,  7.444E+00,  1.186E+01,,   0.909
C,SE-75    ,NO , -1.005E+00,  3.978E+00,  6.472E+00,,  -0.155
C,SR-85    ,NO ,  1.822E+01,  3.589E+00,  6.947E+00,,   2.622
C,Y-88     ,NO ,  6.747E-01,  3.206E+00,  5.379E+00,,   0.125
C,NB-94    ,NO ,  2.207E+00,  2.876E+00,  4.940E+00,,   0.447
C,NB-95    ,NO ,  1.570E+00,  3.077E+00,  5.199E+00,,   0.302
C,ZR-95    ,NO , -3.808E+00,  5.670E+00,  8.946E+00,,  -0.426
C,MO-99    ,NO , -2.938E+01,  1.789E+02,  2.916E+02,,  -0.101
C,RU-103   ,NO ,  3.492E-01,  3.394E+00,  5.653E+00,,   0.062
C,RU-106   ,NO , -1.464E+01,  2.832E+01,  4.274E+01,,  -0.342
C,AG-110m  ,NO ,  7.155E-01,  2.786E+00,  4.692E+00,,   0.152
C,SN-113   ,NO , -7.211E-01,  3.923E+00,  6.400E+00,,  -0.113
C,SB-124   ,NO ,  1.364E+00,  7.452E+00,  5.361E+00,,   0.255
C,SB-125   ,NO ,  6.804E-01,  8.023E+00,  1.315E+01,,   0.052
C,TE-129M  ,NO , -1.113E+01,  3.850E+01,  6.168E+01,,  -0.180
C,I-131    ,NO ,  1.498E+00,  5.932E+00,  9.899E+00,,   0.151
C,BA-133   ,NO ,  3.262E+00,  4.777E+00,  6.950E+00,,   0.469
C,CS-134   ,NO ,  6.461E+00,  6.970E+00,  5.687E+00,,   1.136
C,CS-136   ,NO ,  2.777E+00,  4.203E+00,  7.152E+00,,   0.388
C,CS-137   ,NO ,  1.861E+00,  3.115E+00,  5.334E+00,,   0.349
C,CE-139   ,NO , -2.052E-01,  2.789E+00,  4.548E+00,,  -0.045
C,BA-140   ,NO , -7.098E+00,  1.599E+01,  2.577E+01,,  -0.275
C,LA-140   ,NO ,  6.475E+00,  5.400E+00,  9.749E+00,,   0.664
C,CE-141   ,NO ,  6.208E+00,  5.998E+00,  8.771E+00,,   0.708
C,CE-144   ,NO , -2.305E+01,  2.429E+01,  3.310E+01,,  -0.696
C,EU-152   ,NO , -8.420E+00,  1.100E+01,  1.481E+01,,  -0.569
C,EU-154   ,NO , -6.527E-01,  5.498E+00,  9.112E+00,,  -0.072
C,U-235    ,NO ,  1.132E+01,  2.364E+01,  3.385E+01,,   0.334
C,U-238    ,NO , -7.707E+01,  3.157E+02,  5.084E+02,,  -0.152
C,AM-241   ,NO , -1.545E+01,  2.368E+01,  3.558E+01,,  -0.434
```

Sec. Review: RS Analyst: JM LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 16-JUN-2006 07:21:58.09
TBE10 12892256 HpGe ********** Aquisition Date/Time: 15-JUN-2006 23:21:47.01

LIMS No., Customer Name, Client ID: WG L28896-7 EX TMI

Sample ID : 10L28896-7
Sample Type : WG
Quantity : 3.11210E+00 L
Start Channel : 80 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 5-JUN-2006 16:05:00.0
Geometry : 103L083004
BKGFILE : 10BG060306MT
Real Time : 0 08:00:04.70
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.30*	116	937	1.23	132.02	7.27E-01	4.04E-03	49.6	1.40E-01
2	1	74.92*	31	1247	2.64	149.25	1.03E+00	1.08E-03	233.3	8.39E+00
3	1	92.53*	26	880	1.33	184.49	1.52E+00	9.01E-04	240.8	1.76E-01
4	1	139.89	242	866	1.56	279.27	1.91E+00	8.41E-03	22.8	3.26E-01
5	1	198.28*	249	635	1.88	396.09	1.72E+00	8.63E-03	21.8	2.86E+00
6	1	238.63*	125	562	1.15	476.84	1.54E+00	4.35E-03	40.4	1.74E+00
7	1	297.00	302	670	4.91	593.65	1.32E+00	1.05E-02	21.5	2.35E+00
8	1	351.52*	71	417	1.59	702.78	1.17E+00	2.45E-03	66.5	2.56E+00
9	1	596.19	107	181	1.59	1192.49	7.85E-01	3.70E-03	25.6	2.74E+00
10	1	608.98*	190	148	1.84	1218.10	7.73E-01	6.59E-03	17.8	2.24E+00
11	1	847.70*	114	144	1.15	1696.03	5.98E-01	3.97E-03	25.9	3.24E+01
12	1	1121.85	15	97	0.95	2245.00	4.78E-01	5.27E-04	171.8	3.35E+00
13	1	1460.60*	8	86	2.03	2923.53	3.89E-01	2.74E-04	366.4	1.20E+00
14	1	1763.78*	22	43	2.76	3530.98	3.39E-01	7.58E-04	89.3	7.97E-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	8	10.67*	3.886E-01	5.748E+00	5.748E+00	732.80
TH-228	238.63	125	44.60*	1.538E+00	5.506E+00	5.564E+00	80.85
	240.98	------	3.95	1.529E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L28896-7

Acquisition date : 15-JUN-2006 23:21:47

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	5.748E+00	5.748E+00	42.12E+00	732.80	
TH-228	1.91Y	1.01	5.506E+00	5.564E+00	4.498E+00	80.85	
		Total Activity :	1.125E+01	1.131E+01			

Grand Total Activity : 1.125E+01 1.131E+01

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

Unidentified Energy Lines
Sample ID : 10L28896-7

Acquisition date : 15-JUN-2006 23:21:47

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.30	116	937	1.23	132.02	129	8	4.04E-03	99.2	7.27E-01	
1	74.92	31	1247	2.64	149.25	142	11	1.08E-03	****	1.03E+00	
1	92.53	26	880	1.33	184.49	181	9	9.01E-04	****	1.52E+00	
1	139.89	242	866	1.56	279.27	275	9	8.41E-03	45.6	1.91E+00	
1	198.28	249	635	1.88	396.09	392	9	8.63E-03	43.6	1.72E+00	
1	297.00	302	670	4.91	593.65	584	19	1.05E-02	43.0	1.32E+00	
1	351.52	71	417	1.59	702.78	696	12	2.45E-03	****	1.17E+00	
1	596.19	107	181	1.59	1192.49	1188	10	3.70E-03	51.2	7.85E-01	
1	608.98	190	148	1.84	1218.10	1211	13	6.59E-03	35.6	7.73E-01	
1	847.70	114	144	1.15	1696.03	1687	15	3.97E-03	51.8	5.98E-01	
1	1121.85	15	97	0.95	2245.00	2236	20	5.27E-04	****	4.78E-01	
1	1763.78	22	43	2.76	3530.98	3522	19	7.58E-04	****	3.39E-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	5.748E+00	5.748E+00	42.12E+00	732.80	
TH-228	1.91Y	1.01	5.506E+00	5.564E+00	4.498E+00	80.85	
			---	---			
Total Activity :			1.125E+01	1.131E+01			

Grand Total Activity : 1.125E+01 1.131E+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/MD
K-40	5.748E+00	4.212E+01	3.384E+01	0.000E+00	0.17
TH-228	5.564E+00	4.498E+00	6.219E+00	0.000E+00	0.89

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

Key-Line

Nuclide	Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	4.310E+00		2.015E+01	3.375E+01	0.000E+00	0.128
NA-24	-3.855E-01		1.280E-01	Half-Life too short		
CR-51	-1.842E+01		2.388E+01	3.781E+01	0.000E+00	-0.487
MN-54	1.405E+00		2.607E+00	3.938E+00	0.000E+00	0.357
CO-57	5.988E-01		2.046E+00	3.420E+00	0.000E+00	0.175
CO-58	-1.639E-01		2.435E+00	3.964E+00	0.000E+00	-0.041
FE-59	2.887E+00		4.741E+00	8.113E+00	0.000E+00	0.356
CO-60	-7.675E-02		2.355E+00	3.832E+00	0.000E+00	-0.020
ZN-65	9.202E+00		5.615E+00	8.784E+00	0.000E+00	1.048
SE-75	2.825E+00		3.063E+00	5.138E+00	0.000E+00	0.550
SR-85	1.868E+01		2.799E+00	5.398E+00	0.000E+00	3.461
Y-88	-2.621E+00		2.905E+00	4.464E+00	0.000E+00	-0.587
NB-94	9.145E-01		2.201E+00	3.694E+00	0.000E+00	0.248
NB-95	-3.996E-01		2.394E+00	3.900E+00	0.000E+00	-0.102
ZR-95	1.098E+00		4.274E+00	7.098E+00	0.000E+00	0.155
MO-99	-6.353E+01		2.242E+02	3.643E+02	0.000E+00	-0.174
RU-103	1.002E+00		2.680E+00	4.497E+00	0.000E+00	0.223
RU-106	-5.371E+00		2.091E+01	3.324E+01	0.000E+00	-0.162
AG-110m	1.606E+00		2.271E+00	3.872E+00	0.000E+00	0.415
SN-113	-1.847E+00		2.997E+00	4.834E+00	0.000E+00	-0.382
SB-124	-5.467E-01		5.748E+00	3.922E+00	0.000E+00	-0.139
SB-125	-3.434E+00		6.344E+00	1.017E+01	0.000E+00	-0.338
TE-129M	9.215E-01		3.000E+01	4.878E+01	0.000E+00	0.019
I-131	-8.776E-01		5.428E+00	8.928E+00	0.000E+00	-0.098
BA-133	6.149E+00		3.621E+00	5.426E+00	0.000E+00	1.133
CS-134	7.103E+00		5.294E+00	4.366E+00	0.000E+00	1.627
CS-136	-2.270E+00		3.718E+00	5.888E+00	0.000E+00	-0.386
CS-137	1.799E+00		2.411E+00	4.117E+00	0.000E+00	0.437
CE-139	3.291E-01		2.188E+00	3.586E+00	0.000E+00	0.092
BA-140	-1.958E+00		1.322E+01	2.166E+01	0.000E+00	-0.090
LA-140	3.483E+00		4.791E+00	8.193E+00	0.000E+00	0.425
CE-141	5.389E+00		4.866E+00	7.054E+00	0.000E+00	0.764
CE-144	-1.091E+01		1.878E+01	2.613E+01	0.000E+00	-0.418
EU-152	-5.560E+00		8.067E+00	1.101E+01	0.000E+00	-0.505
EU-154	-3.853E-01		4.223E+00	7.008E+00	0.000E+00	-0.055
RA-226	-2.144E+01		5.887E+01	8.793E+01	0.000E+00	-0.244
AC-228	-2.585E+00		9.867E+00	1.497E+01	0.000E+00	-0.173
TH-232	-2.576E+00		9.833E+00	1.492E+01	0.000E+00	-0.173
U-235	1.658E+01		1.828E+01	2.637E+01	0.000E+00	0.629
U-238	2.048E+01		2.425E+02	3.993E+02	0.000E+00	0.051
AM-241	-1.920E+01		1.733E+01	2.671E+01	0.000E+00	-0.719

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A,10L28896-7        ,06/16/2006 07:21,06/05/2006 16:05,   3.112E+00,WG L28896-7 EX
B,10L28896-7        ,LIBD                ,06/13/2006 09:42,103L083004
C,K-40     ,YES,    5.748E+00,   4.212E+01,   3.384E+01,,    0.170
C,TH-228   ,YES,    5.564E+00,   4.498E+00,   6.219E+00,,    0.895
C,BE-7     ,NO ,    4.310E+00,   2.015E+01,   3.375E+01,,    0.128
C,CR-51    ,NO ,   -1.842E+01,   2.388E+01,   3.781E+01,,   -0.487
C,MN-54    ,NO ,    1.405E+00,   2.607E+00,   3.938E+00,,    0.357
C,CO-57    ,NO ,    5.988E-01,   2.046E+00,   3.420E+00,,    0.175
C,CO-58    ,NO ,   -1.639E-01,   2.435E+00,   3.964E+00,,   -0.041
C,FE-59    ,NO ,    2.887E+00,   4.741E+00,   8.113E+00,,    0.356
C,CO-60    ,NO ,   -7.675E-02,   2.355E+00,   3.832E+00,,   -0.020
C,ZN-65    ,NO ,    9.202E+00,   5.615E+00,   8.784E+00,,    1.048
C,SE-75    ,NO ,    2.825E+00,   3.063E+00,   5.138E+00,,    0.550
C,SR-85    ,NO ,    1.868E+01,   2.799E+00,   5.398E+00,,    3.461
C,Y-88     ,NO ,   -2.621E+00,   2.905E+00,   4.464E+00,,   -0.587
C,NB-94    ,NO ,    9.145E-01,   2.201E+00,   3.694E+00,,    0.248
C,NB-95    ,NO ,   -3.996E-01,   2.394E+00,   3.900E+00,,   -0.102
C,ZR-95    ,NO ,    1.098E+00,   4.274E+00,   7.098E+00,,    0.155
C,MO-99    ,NO ,   -6.353E+01,   2.242E+02,   3.643E+02,,   -0.174
C,RU-103   ,NO ,    1.002E+00,   2.680E+00,   4.497E+00,,    0.223
C,RU-106   ,NO ,   -5.371E+00,   2.091E+01,   3.324E+01,,   -0.162
C,AG-110m  ,NO ,    1.606E+00,   2.271E+00,   3.872E+00,,    0.415
C,SN-113   ,NO ,   -1.847E+00,   2.997E+00,   4.834E+00,,   -0.382
C,SB-124   ,NO ,   -5.467E-01,   5.748E+00,   3.922E+00,,   -0.139
C,SB-125   ,NO ,   -3.434E+00,   6.344E+00,   1.017E+01,,   -0.338
C,TE-129M  ,NO ,    9.215E-01,   3.000E+01,   4.878E+01,,    0.019
C,I-131    ,NO ,   -8.776E-01,   5.428E+00,   8.928E+00,,   -0.098
C,BA-133   ,NO ,    6.149E+00,   3.621E+00,   5.426E+00,,    1.133
C,CS-134   ,NO ,    7.103E+00,   5.294E+00,   4.366E+00,,    1.627
C,CS-136   ,NO ,   -2.270E+00,   3.718E+00,   5.888E+00,,   -0.386
C,CS-137   ,NO ,    1.799E+00,   2.411E+00,   4.117E+00,,    0.437
C,CE-139   ,NO ,    3.291E-01,   2.188E+00,   3.586E+00,,    0.092
C,BA-140   ,NO ,   -1.958E+00,   1.322E+01,   2.166E+01,,   -0.090
C,LA-140   ,NO ,    3.483E+00,   4.791E+00,   8.193E+00,,    0.425
C,CE-141   ,NO ,    5.389E+00,   4.866E+00,   7.054E+00,,    0.764
C,CE-144   ,NO ,   -1.091E+01,   1.878E+01,   2.613E+01,,   -0.418
C,EU-152   ,NO ,   -5.560E+00,   8.067E+00,   1.101E+01,,   -0.505
C,EU-154   ,NO ,   -3.853E-01,   4.223E+00,   7.008E+00,,   -0.055
C,RA-226   ,NO ,   -2.144E+01,   5.887E+01,   8.793E+01,,   -0.244
C,AC-228   ,NO ,   -2.585E+00,   9.867E+00,   1.497E+01,,   -0.173
C,TH-232   ,NO ,   -2.576E+00,   9.833E+00,   1.492E+01,,   -0.173
C,U-235    ,NO ,    1.658E+01,   1.828E+01,   2.637E+01,,    0.629
C,U-238    ,NO ,    2.048E+01,   2.425E+02,   3.993E+02,,    0.051
C,AM-241   ,NO ,   -1.920E+01,   1.733E+01,   2.671E+01,,   -0.719
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 16-JUN-2006 23:09:20.92
TBE04 P-40312B HpGe ********** Aquisition Date/Time: 16-JUN-2006 12:10:37.53

LIMS No., Customer Name, Client ID: WG L28896-8 EXELON/TMI

Sample ID : 04L28896-8
Sample Type : WG
Quantity : 3.08930E+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: 7-JUN-2006 10:20:00.0
Geometry : 043L082004
BKGFILE : 04BG060306MT
Real Time : 0 02:53:02.81
Live time : 0 02:53:01.05

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.22*	94	339	1.78	133.09	6.60E-01	9.09E-03	37.7	1.03E+00
2	1	87.58*	13	169	1.06	175.81	1.40E+00	1.29E-03	166.0	2.90E+00
3	1	91.99*	45	276	1.86	184.61	1.52E+00	4.38E-03	68.2	2.13E+01
4	1	139.80	130	327	2.03	280.19	2.04E+00	1.26E-02	29.1	8.12E-01
5	1	199.13*	23	212	1.60	398.79	1.86E+00	2.22E-03	126.6	2.13E+00
6	1	238.99*	20	207	1.71	478.48	1.68E+00	1.90E-03	153.9	2.17E+00
7	1	295.35	35	116	0.97	591.16	1.45E+00	3.37E-03	54.1	1.98E+00
8	1	352.17*	57	100	1.30	704.75	1.28E+00	5.47E-03	41.0	5.18E+00
9	1	583.41*	12	52	1.50	1167.04	8.77E-01	1.12E-03	133.6	3.31E-01
10	1	596.83	60	47	2.59	1193.87	8.62E-01	5.79E-03	27.3	1.90E+00
11	1	609.50*	85	50	1.52	1219.21	8.48E-01	8.18E-03	21.6	1.34E+00
12	1	911.10*	31	32	3.93	1822.23	6.21E-01	2.95E-03	42.2	8.77E+00
13	1	1127.19	84	53	6.64	2254.33	5.25E-01	8.07E-03	21.3	1.37E+01
14	1	1173.48*	10	16	2.26	2346.89	5.08E-01	9.56E-04	95.8	1.17E+00
15	1	1461.52*	0	19	2.25	2922.88	4.29E-01	2.50E-05	*****	9.94E-01
16	1	1765.08*	23	21	3.64	3530.00	3.77E-01	2.19E-03	54.0	1.45E+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	0	10.67*	4.294E-01	4.782E-01	4.782E-01	10155.99
AC-228	835.50	------	1.75	6.649E-01	------	Line Not Found	------
	911.07	31	27.70*	6.211E-01	1.500E+01	1.504E+01	84.36
	238.63	20	44.60*	1.678E+00	2.221E+00	2.241E+00	307.78
TH-228	240.98	------	3.95	1.669E+00	------	Line Not Found	------
	583.14	12	30.25	8.770E-01	3.685E+00	3.685E+00	267.23
TH-232	911.07	31	27.70*	6.211E-01	1.500E+01	1.500E+01	84.36
	969.11	------	16.60	5.916E-01	------	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	10	100.00	5.084E-01	1.645E+00	1.650E+00	191.51

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

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 04L28896-8

Acquisition date : 16-JUN-2006 12:10:37

Total number of lines in spectrum	16	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	5	31.25%

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	4.782E-01	4.782E-01	485.6E-01	10155.99	
AC-228	5.75Y	1.00	1.500E+01	1.504E+01	1.269E+01	84.36	
TH-228	1.91Y	1.01	2.221E+00	2.241E+00	6.897E+00	307.78	
TH-232	1.41E+10Y	1.00	1.500E+01	1.500E+01	1.265E+01	84.36	
			---	---			
Total Activity :			3.269E+01	3.276E+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	1.645E+00	1.650E+00	3.161E+00	191.51	K
			---	---			
Total Activity :			1.645E+00	1.650E+00			

Grand Total Activity : 3.434E+01 3.441E+01

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

Unidentified Energy Lines
Sample ID : 04L28896-8

Acquisition date : 16-JUN-2006 12:10:37

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.22	94	339	1.78	133.09	129	9	9.09E-03	75.4	6.60E-01	
1	87.58	13	169	1.06	175.81	166	13	1.29E-03	****	1.40E+00	
1	91.99	45	276	1.86	184.61	182	8	4.38E-03	****	1.52E+00	
1	139.80	130	327	2.03	280.19	275	12	1.26E-02	58.2	2.04E+00	
1	199.13	23	212	1.60	398.79	394	9	2.22E-03	****	1.86E+00	
1	295.35	35	116	0.97	591.16	587	7	3.37E-03	****	1.45E+00	
1	352.17	57	100	1.30	704.75	700	11	5.47E-03	82.0	1.28E+00	
1	596.83	60	47	2.59	1193.87	1187	13	5.79E-03	54.6	8.62E-01	
1	609.50	85	50	1.52	1219.21	1215	10	8.18E-03	43.3	8.48E-01	
1	1127.19	84	53	6.64	2254.33	2242	14	8.07E-03	42.5	5.25E-01	
1	1765.08	23	21	3.64	3530.00	3521	17	2.19E-03	****	3.77E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	16	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	5	31.25%

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	4.782E-01	4.782E-01	485.6E-01	10155.99	
AC-228	5.75Y	1.00	1.131E+01	1.135E+01	1.608E+01	141.74	
TH-228	1.91Y	1.01	2.221E+00	2.241E+00	6.897E+00	307.78	
TH-232	1.41E+10Y	1.00	3.685E+00	3.685E+00	9.849E+00	267.23	
			---	---			
Total Activity :			1.770E+01	1.775E+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	1.645E+00	1.650E+00	3.161E+00	191.51	
			---	---			
Total Activity :			1.645E+00	1.650E+00			

Grand Total Activity : 1.934E+01 1.940E+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

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA
K-40	4.782E-01	4.856E+01	4.705E+01	0.000E+00	0.010
CO-60	1.650E+00	3.161E+00	6.413E+00	0.000E+00	0.257
AC-228	1.135E+01	1.608E+01	1.646E+01	0.000E+00	0.689
TH-228	2.241E+00	6.897E+00	8.235E+00	0.000E+00	0.272
TH-232	3.685E+00	9.849E+00	2.102E+01	0.000E+00	0.175

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	5.608E+00		2.840E+01	4.754E+01	0.000E+00	0.118
NA-24	-4.515E-02		4.167E-02	Half-Life too short		
CR-51	-2.050E+01		3.332E+01	5.348E+01	0.000E+00	-0.383
MN-54	1.827E+00		3.291E+00	5.587E+00	0.000E+00	0.327
CO-57	2.715E+00		2.959E+00	4.981E+00	0.000E+00	0.545
CO-58	3.626E-01		3.655E+00	6.000E+00	0.000E+00	0.060
FE-59	-2.310E+00		6.611E+00	1.036E+01	0.000E+00	-0.223
ZN-65	2.052E+00		9.193E+00	1.318E+01	0.000E+00	0.156
SE-75	-5.707E-01		4.392E+00	7.067E+00	0.000E+00	-0.081
SR-85	1.900E+01		4.218E+00	8.249E+00	0.000E+00	2.303
Y-88	-3.491E+00		3.977E+00	5.820E+00	0.000E+00	-0.600
NB-94	-2.035E+00		2.977E+00	4.653E+00	0.000E+00	-0.437
NB-95	2.080E+00		3.475E+00	5.944E+00	0.000E+00	0.350
ZR-95	-5.387E-01		6.018E+00	9.791E+00	0.000E+00	-0.055
MO-99	-4.771E+01		2.377E+02	3.842E+02	0.000E+00	-0.124
RU-103	2.657E+00		3.739E+00	6.422E+00	0.000E+00	0.414
RU-106	-1.810E+01		3.002E+01	4.720E+01	0.000E+00	-0.383
AG-110m	-2.038E+00		3.211E+00	5.083E+00	0.000E+00	-0.401
SN-113	4.824E-01		4.206E+00	6.899E+00	0.000E+00	0.070
SB-124	2.927E+00		6.750E+00	5.479E+00	0.000E+00	0.534
SB-125	-1.056E+00		9.084E+00	1.505E+01	0.000E+00	-0.070
TE-129M	4.693E+01		4.296E+01	7.554E+01	0.000E+00	0.621
I-131	-6.234E-02		6.672E+00	1.092E+01	0.000E+00	-0.006
BA-133	8.129E+00		5.331E+00	8.217E+00	0.000E+00	0.989
CS-134	8.121E+00		6.011E+00	5.909E+00	0.000E+00	1.374
CS-136	-3.745E-01		4.938E+00	7.986E+00	0.000E+00	-0.047
CS-137	1.140E+00		3.367E+00	5.710E+00	0.000E+00	0.200
CE-139	-1.435E+00		2.885E+00	4.720E+00	0.000E+00	-0.304
BA-140	7.151E+00		1.764E+01	2.971E+01	0.000E+00	0.241
LA-140	1.173E+00		6.601E+00	1.104E+01	0.000E+00	0.106
CE-141	-1.269E+00		6.845E+00	9.348E+00	0.000E+00	-0.136
CE-144	6.080E+00		2.595E+01	3.649E+01	0.000E+00	0.167
EU-152	-2.241E+00		1.118E+01	1.590E+01	0.000E+00	-0.141
EU-154	1.492E+00		6.137E+00	1.009E+01	0.000E+00	0.148
RA-226	-1.145E+01		7.761E+01	1.261E+02	0.000E+00	-0.09
U-235	2.179E+01		2.566E+01	3.709E+01	0.000E+00	0.58
U-238	1.785E+02		3.497E+02	5.995E+02	0.000E+00	0.29
AM-241	-5.215E+01		3.240E+01	4.536E+01	0.000E+00	-1.15

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A,04L28896-8        ,06/16/2006 23:09,06/07/2006 10:20,   3.089E+00,WG L28896-8 EX
B,04L28896-8        ,LIBD                ,06/13/2006 09:42,043L082004
C,K-40     ,YES,    4.782E-01,   4.856E+01,   4.705E+01,,     0.010
C,CO-60    ,YES,    1.650E+00,   3.161E+00,   6.413E+00,,     0.257
C,AC-228   ,YES,    1.135E+01,   1.608E+01,   1.646E+01,,     0.689
C,TH-228   ,YES,    2.241E+00,   6.897E+00,   8.235E+00,,     0.272
C,TH-232   ,YES,    3.685E+00,   9.849E+00,   2.102E+01,,     0.175
C,BE-7     ,NO ,    5.608E+00,   2.840E+01,   4.754E+01,,     0.118
C,CR-51    ,NO ,   -2.050E+01,   3.332E+01,   5.348E+01,,    -0.383
C,MN-54    ,NO ,    1.827E+00,   3.291E+00,   5.587E+00,,     0.327
C,CO-57    ,NO ,    2.715E+00,   2.959E+00,   4.981E+00,,     0.545
C,CO-58    ,NO ,    3.626E-01,   3.655E+00,   6.000E+00,,     0.060
C,FE-59    ,NO ,   -2.310E+00,   6.611E+00,   1.036E+01,,    -0.223
C,ZN-65    ,NO ,    2.052E+00,   9.193E+00,   1.318E+01,,     0.156
C,SE-75    ,NO ,   -5.707E-01,   4.392E+00,   7.067E+00,,    -0.081
C,SR-85    ,NO ,    1.900E+01,   4.218E+00,   8.249E+00,,     2.303
C,Y-88     ,NO ,   -3.491E+00,   3.977E+00,   5.820E+00,,    -0.600
C,NB-94    ,NO ,   -2.035E+00,   2.977E+00,   4.653E+00,,    -0.437
C,NB-95    ,NO ,    2.080E+00,   3.475E+00,   5.944E+00,,     0.350
C,ZR-95    ,NO ,   -5.387E-01,   6.018E+00,   9.791E+00,,    -0.055
C,MO-99    ,NO ,   -4.771E+01,   2.377E+02,   3.842E+02,,    -0.124
C,RU-103   ,NO ,    2.657E+00,   3.739E+00,   6.422E+00,,     0.414
C,RU-106   ,NO ,   -1.810E+01,   3.002E+01,   4.720E+01,,    -0.383
C,AG-110m  ,NO ,   -2.038E+00,   3.211E+00,   5.083E+00,,    -0.401
C,SN-113   ,NO ,    4.824E-01,   4.206E+00,   6.899E+00,,     0.070
C,SB-124   ,NO ,    2.927E+00,   6.750E+00,   5.479E+00,,     0.534
C,SB-125   ,NO ,   -1.056E+00,   9.084E+00,   1.505E+01,,    -0.070
C,TE-129M  ,NO ,    4.693E+01,   4.296E+01,   7.554E+01,,     0.621
C,I-131    ,NO ,   -6.234E-02,   6.672E+00,   1.092E+01,,    -0.006
C,BA-133   ,NO ,    8.129E+00,   5.331E+00,   8.217E+00,,     0.989
C,CS-134   ,NO ,    8.121E+00,   6.011E+00,   5.909E+00,,     1.374
C,CS-136   ,NO ,   -3.745E-01,   4.938E+00,   7.986E+00,,    -0.047
C,CS-137   ,NO ,    1.140E+00,   3.367E+00,   5.710E+00,,     0.200
C,CE-139   ,NO ,   -1.435E+00,   2.885E+00,   4.720E+00,,    -0.304
C,BA-140   ,NO ,    7.151E+00,   1.764E+01,   2.971E+01,,     0.241
C,LA-140   ,NO ,    1.173E+00,   6.601E+00,   1.104E+01,,     0.106
C,CE-141   ,NO ,   -1.269E+00,   6.845E+00,   9.348E+00,,    -0.136
C,CE-144   ,NO ,    6.080E+00,   2.595E+01,   3.649E+01,,     0.167
C,EU-152   ,NO ,   -2.241E+00,   1.118E+01,   1.590E+01,,    -0.141
C,EU-154   ,NO ,    1.492E+00,   6.137E+00,   1.009E+01,,     0.148
C,RA-226   ,NO ,   -1.145E+01,   7.761E+01,   1.261E+02,,    -0.091
C,U-235    ,NO ,    2.179E+01,   2.566E+01,   3.709E+01,,     0.587
C,U-238    ,NO ,    1.785E+02,   3.497E+02,   5.995E+02,,     0.298
C,AM-241   ,NO ,   -5.215E+01,   3.240E+01,   4.536E+01,,    -1.150
```

Sec. Review: KD Analyst: DM LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 16-JUN-2006 15:43:47.82
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 16-JUN-2006 12:10:38.95

LIMS No., Customer Name, Client ID: WG L28896-9 EXELON/TMI

Sample ID : 07L28896-9
Sample Type : WG
Quantity : 3.15890E+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: 7-JUN-2006 11:30:00.0
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 03:33:03.57
Live time : 0 03:33:01.02

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	139.26*	103	487	1.92	279.21	2.36E+00	8.07E-03	42.3	1.37E+01
2	1	175.34	66	347	1.67	351.42	2.33E+00	5.19E-03	52.3	5.44E-01
3	1	198.37*	81	348	2.30	397.50	2.25E+00	6.31E-03	47.2	3.32E+00
4	1	239.62	92	377	1.60	480.08	2.05E+00	7.19E-03	51.0	9.87E+00
5	1	295.32*	120	172	1.03	591.53	1.81E+00	9.41E-03	22.3	2.10E+00
6	1	352.03*	195	131	1.17	705.01	1.61E+00	1.52E-02	14.1	1.65E+00
7	1	609.41*	232	120	1.58	1219.99	1.09E+00	1.82E-02	13.1	3.95E-01
8	1	1120.49*	28	39	1.44	2242.21	7.03E-01	2.22E-03	52.3	1.88E+00
9	1	1377.75	22	32	1.43	2756.56	6.07E-01	1.71E-03	58.9	6.20E-01
10	1	1765.05*	52	17	2.49	3530.68	5.12E-01	4.06E-03	24.5	1.30E+00
11	1	1847.99	18	13	1.54	3696.43	4.97E-01	1.38E-03	48.4	5.44E-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	92	44.60*	2.053E+00	6.715E+00	6.776E+00	102.03
	240.98	------	3.95	2.047E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28896-9

Acquisition date : 16-JUN-2006 12:10:38

Total number of lines in spectrum	11	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	1	9.09%

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	1.01	6.715E+00	6.776E+00	6.914E+00	102.03	
			---	---			
Total Activity :			6.715E+00	6.776E+00			

Grand Total Activity : 6.715E+00 6.776E+00

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

Unidentified Energy Lines
Sample ID : 07L28896-9

Acquisition date : 16-JUN-2006 12:10:38

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	139.26	103	487	1.92	279.21	275	10	8.07E-03	84.6	2.36E+00	
1	175.34	66	347	1.67	351.42	347	9	5.19E-03	****	2.33E+00	
1	198.37	81	348	2.30	397.50	394	10	6.31E-03	94.3	2.25E+00	
1	295.32	120	172	1.03	591.53	587	8	9.41E-03	44.6	1.81E+00	
1	352.03	195	131	1.17	705.01	701	8	1.52E-02	28.2	1.61E+00	
1	609.41	232	120	1.58	1219.99	1212	15	1.82E-02	26.3	1.09E+00	
1	1120.49	28	39	1.44	2242.21	2236	11	2.22E-03	****	7.03E-01	
1	1377.75	22	32	1.43	2756.56	2749	14	1.71E-03	****	6.07E-01	
1	1765.05	52	17	2.49	3530.68	3525	12	4.06E-03	48.9	5.12E-01	
1	1847.99	18	13	1.54	3696.43	3689	13	1.38E-03	96.9	4.97E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	11	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	1	9.09%

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	1.01	6.715E+00	6.776E+00	6.914E+00	102.03	
		Total Activity :	6.715E+00	6.776E+00			

Grand Total Activity : 6.715E+00 6.776E+00

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/MD
TH-228	6.776E+00	6.914E+00	8.263E+00	0.000E+00	0.82

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MI
[illegible]	2.019E+01		2.814E+01	4.716E+01	0.000E+00	0.4

NA-24	-2.263E-02	4.176E-02	Half-Life too short		
K-40	1.298E+01	3.803E+01	6.775E+01	0.000E+00	0.192
CR-51	7.968E+00	3.086E+01	5.071E+01	0.000E+00	0.157
MN-54	-1.434E+00	2.950E+00	4.687E+00	0.000E+00	-0.306
CO-57	2.214E+00	2.909E+00	4.922E+00	0.000E+00	0.450
CO-58	-1.019E+00	3.120E+00	5.014E+00	0.000E+00	-0.203
FE-59	2.129E+00	6.150E+00	1.040E+01	0.000E+00	0.205
CO-60	9.694E-01	2.879E+00	4.823E+00	0.000E+00	0.201
ZN-65	1.221E+01	6.524E+00	1.190E+01	0.000E+00	1.027
SE-75	-2.826E+00	4.008E+00	6.452E+00	0.000E+00	-0.438
SR-85	2.424E+01	3.700E+00	7.289E+00	0.000E+00	3.325
Y-88	-1.661E+00	3.876E+00	4.953E+00	0.000E+00	-0.335
NB-94	2.398E+00	2.824E+00	4.849E+00	0.000E+00	0.495
NB-95	3.974E+00	3.280E+00	5.700E+00	0.000E+00	0.697
ZR-95	-2.775E+00	6.033E+00	9.698E+00	0.000E+00	-0.286
MO-99	-1.721E+02	2.212E+02	3.499E+02	0.000E+00	-0.492
RU-103	-5.219E+00	3.671E+00	5.754E+00	0.000E+00	-0.907
RU-106	-4.472E+00	3.146E+01	4.606E+01	0.000E+00	-0.097
AG-110m	-7.661E-01	2.948E+00	4.738E+00	0.000E+00	-0.162
SN-113	1.971E+00	3.790E+00	6.365E+00	0.000E+00	0.310
SB-124	1.183E+01	4.139E+00	6.610E+00	0.000E+00	1.790
SB-125	8.219E+00	8.365E+00	1.423E+01	0.000E+00	0.577
TE-129M	1.060E+01	3.974E+01	6.556E+01	0.000E+00	0.162
I-131	-9.924E-01	6.507E+00	1.034E+01	0.000E+00	-0.096
BA-133	1.745E+01	4.535E+00	8.331E+00	0.000E+00	2.094
CS-134	1.233E+01	4.335E+00	6.798E+00	0.000E+00	1.813
CS-136	-6.453E-02	4.424E+00	7.229E+00	0.000E+00	-0.009
CS-137	8.742E-01	3.099E+00	5.208E+00	0.000E+00	0.168
CE-139	3.955E+00	3.267E+00	5.055E+00	0.000E+00	0.782
BA-140	-2.883E+00	1.615E+01	2.642E+01	0.000E+00	-0.109
LA-140	-6.509E-01	5.695E+00	9.234E+00	0.000E+00	-0.070
CE-141	2.879E+00	6.712E+00	9.499E+00	0.000E+00	0.303
CE-144	-2.464E+01	2.738E+01	3.708E+01	0.000E+00	-0.664
EU-152	-9.535E+00	1.099E+01	1.464E+01	0.000E+00	-0.651
EU-154	6.587E+00	6.038E+00	1.029E+01	0.000E+00	0.640
RA-226	-8.758E+01	7.805E+01	1.191E+02	0.000E+00	-0.735
AC-228	-1.339E+00	1.128E+01	1.828E+01	0.000E+00	-0.073
TH-232	-1.335E+00	1.125E+01	1.823E+01	0.000E+00	-0.073
U-235	4.677E+01	2.633E+01	3.899E+01	0.000E+00	1.200
U-238	1.819E+02	3.377E+02	5.709E+02	0.000E+00	0.319
AM-241	-6.549E+01	2.770E+01	4.332E+01	0.000E+00	-1.512

A,07L28896-9 ,06/16/2006 15:43,06/07/2006 11:30, 3.159E+00,WG L28896-9 EX
B,07L28896-9 ,LIBD ,06/07/2006 09:32,073L082504

C,TH-228	,YES,	6.776E+00,	6.914E+00,	8.263E+00,,	0.820
C,BE-7	,NO ,	2.019E+01,	2.814E+01,	4.716E+01,,	0.428
C,K-40	,NO ,	1.298E+01,	3.803E+01,	6.775E+01,,	0.192
C,CR-51	,NO ,	7.968E+00,	3.086E+01,	5.071E+01,,	0.157
C,MN-54	,NO ,	-1.434E+00,	2.950E+00,	4.687E+00,,	-0.306
C,CO-57	,NO ,	2.214E+00,	2.909E+00,	4.922E+00,,	0.450
C,CO-58	,NO ,	-1.019E+00,	3.120E+00,	5.014E+00,,	-0.203
C,FE-59	,NO ,	2.129E+00,	6.150E+00,	1.040E+01,,	0.205
C,CO-60	,NO ,	9.694E-01,	2.879E+00,	4.823E+00,,	0.201
C,ZN-65	,NO ,	1.221E+01,	6.524E+00,	1.190E+01,,	1.027
C,SE-75	,NO ,	-2.826E+00,	4.008E+00,	6.452E+00,,	-0.438
C,SR-85	,NO ,	2.424E+01,	3.700E+00,	7.289E+00,,	3.325
C,Y-88	,NO ,	-1.661E+00,	3.876E+00,	4.953E+00,,	-0.335
C,NB-94	,NO ,	2.398E+00,	2.824E+00,	4.849E+00,,	0.495
C,NB-95	,NO ,	3.974E+00,	3.280E+00,	5.700E+00,,	0.697
C,ZR-95	,NO ,	-2.775E+00,	6.033E+00,	9.698E+00,,	-0.286
C,MO-99	,NO ,	-1.721E+02,	2.212E+02,	3.499E+02,,	-0.492
C,RU-103	,NO ,	-5.219E+00,	3.671E+00,	5.754E+00,,	-0.907
C,RU-106	,NO ,	-4.472E+00,	3.146E+01,	4.606E+01,,	-0.097
C,AG-110m	,NO ,	-7.661E-01,	2.948E+00,	4.738E+00,,	-0.162
C,SN-113	,NO ,	1.971E+00,	3.790E+00,	6.365E+00,,	0.310
C,SB-124	,NO ,	1.183E+01,	4.139E+00,	6.610E+00,,	1.790
C,SB-125	,NO ,	8.219E+00,	8.365E+00,	1.423E+01,,	0.577
C,TE-129M	,NO ,	1.060E+01,	3.974E+01,	6.556E+01,,	0.162
C,I-131	,NO ,	-9.924E-01,	6.507E+00,	1.034E+01,,	-0.096
C,BA-133	,NO ,	1.745E+01,	4.535E+00,	8.331E+00,,	2.094
C,CS-134	,NO ,	1.233E+01,	4.335E+00,	6.798E+00,,	1.813
C,CS-136	,NO ,	-6.453E-02,	4.424E+00,	7.229E+00,,	-0.009
C,CS-137	,NO ,	8.742E-01,	3.099E+00,	5.208E+00,,	0.168
C,CE-139	,NO ,	3.955E+00,	3.267E+00,	5.055E+00,,	0.782
C,BA-140	,NO ,	-2.883E+00,	1.615E+01,	2.642E+01,,	-0.109
C,LA-140	,NO ,	-6.509E-01,	5.695E+00,	9.234E+00,,	-0.070
C,CE-141	,NO ,	2.879E+00,	6.712E+00,	9.499E+00,,	0.303
C,CE-144	,NO ,	-2.464E+01,	2.738E+01,	3.708E+01,,	-0.664
C,EU-152	,NO ,	-9.535E+00,	1.099E+01,	1.464E+01,,	-0.651
C,EU-154	,NO ,	6.587E+00,	6.038E+00,	1.029E+01,,	0.640
C,RA-226	,NO ,	-8.758E+01,	7.805E+01,	1.191E+02,,	-0.735
C,AC-228	,NO ,	-1.339E+00,	1.128E+01,	1.828E+01,,	-0.073
C,TH-232	,NO ,	-1.335E+00,	1.125E+01,	1.823E+01,,	-0.073
C,U-235	,NO ,	4.677E+01,	2.633E+01,	3.899E+01,,	1.200
C,U-238	,NO ,	1.819E+02,	3.377E+02,	5.709E+02,,	0.319
C,AM-241	,NO ,	-6.549E+01,	2.770E+01,	4.332E+01,,	-1.512

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 16-JUN-2006 14:43:59.86
TBE13 P-10727B HpGe ********** Aquisition Date/Time: 16-JUN-2006 12:10:42.56

LIMS No., Customer Name, Client ID: WG L28896-10 EXELON/TMI

Smple Date: 7-JUN-2006 09:40:00.0
Geometry : 133L082404
BKGFILE : 13BG060306MT
Real Time : 0 02:33:03.58
Live time : 0 02:33:01.03

Sample ID : 13L28896-10
Sample Type : WG
Quantity : 3.12820E+00 L
Start Channel : 25 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	3	77.14*	36	197	0.86	154.24	1.25E+00	3.92E-03	67.3	4.57E+00
2	1	140.21*	135	198	1.52	280.40	2.27E+00	1.47E-02	21.3	1.71E+00
3	1	185.63*	66	259	2.63	371.24	2.18E+00	7.24E-03	54.7	3.01E+00
4	1	197.76*	35	296	1.81	395.49	2.13E+00	3.78E-03	96.5	2.30E+00
5	1	238.41*	144	195	0.98	476.80	1.94E+00	1.57E-02	21.2	3.51E+00
6	1	295.22*	33	163	1.16	590.44	1.70E+00	3.60E-03	73.8	1.48E+00
7	1	351.60*	98	124	1.86	703.22	1.51E+00	1.06E-02	26.4	1.50E+00
8	1	583.21*	41	58	1.72	1166.56	1.04E+00	4.49E-03	47.6	1.46E+00
9	1	595.85	42	91	2.05	1191.84	1.02E+00	4.52E-03	48.0	6.84E-01
10	1	609.17*	134	92	1.58	1218.50	1.01E+00	1.46E-02	19.6	2.01E+00
11	1	1120.27*	49	12	2.88	2241.26	6.27E-01	5.34E-03	25.9	1.30E+00
12	1	1126.08	16	11	1.95	2252.89	6.24E-01	1.72E-03	41.6	1.63E+00
13	1	1238.53*	35	6	2.45	2477.96	5.80E-01	3.86E-03	27.2	9.98E-01
14	1	1461.40*	4	21	2.25	2924.09	5.14E-01	4.76E-04	330.4	6.24E-01
15	1	1730.20	16	4	1.55	3462.27	4.60E-01	1.70E-03	32.7	2.96E-01
16	1	1764.85*	41	0	2.61	3531.65	4.55E-01	4.42E-03	21.3	7.63E-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	4	10.67*	5.142E-01	7.498E+00	7.498E+00	660.74
RA-226	186.21	66	3.28*	2.179E+00	8.751E+01	8.751E+01	109.40
	238.63	144	44.60*	1.939E+00	1.568E+01	1.583E+01	42.40
TH-228	240.98	------	3.95	1.927E+00	------	Line Not Found	------
	143.76	------	10.50*	2.278E+00	------	Line Not Found	------
U-235	163.35	------	4.70	2.256E+00	------	Line Not Found	------
	185.71	66	54.00	2.179E+00	5.315E+00	5.315E+00	109.40
	205.31	------	4.70	2.093E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 13L28896-10

Acquisition date : 16-JUN-2006 12:10:42

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	7.498E+00	7.498E+00	49.54E+00	660.74	
RA-226	1600.00Y	1.00	8.751E+01	8.751E+01	9.574E+01	109.40	
TH-228	1.91Y	1.01	1.568E+01	1.583E+01	0.671E+01	42.40	
U-235	7.04E+08Y	1.00	5.315E+00	5.315E+00	5.815E+00	109.40	K
			---	---			
Total Activity :			1.160E+02	1.162E+02			

Grand Total Activity : 1.160E+02 1.162E+02

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

Unidentified Energy Lines
Sample ID : 13L28896-10

Acquisition date : 16-JUN-2006 12:10:42

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	77.14	36	197	0.86	154.24	147	11	3.92E-03	****	1.25E+00	
1	140.21	135	198	1.52	280.40	277	8	1.47E-02	42.6	2.27E+00	
1	197.76	35	296	1.81	395.49	391	10	3.78E-03	****	2.13E+00	
1	295.22	33	163	1.16	590.44	587	8	3.60E-03	****	1.70E+00	
1	351.60	98	124	1.86	703.22	698	11	1.06E-02	52.8	1.51E+00	
1	583.21	41	58	1.72	1166.56	1160	13	4.49E-03	95.2	1.04E+00	T
1	595.85	42	91	2.05	1191.84	1186	12	4.52E-03	95.9	1.02E+00	
1	609.17	134	92	1.58	1218.50	1210	16	1.46E-02	39.2	1.01E+00	
1	1120.27	49	12	2.88	2241.26	2234	16	5.34E-03	51.7	6.27E-01	
1	1126.08	16	11	1.95	2252.89	2250	8	1.72E-03	83.1	6.24E-01	
1	1238.53	35	6	2.45	2477.96	2472	14	3.86E-03	54.3	5.80E-01	
1	1730.20	16	4	1.55	3462.27	3458	8	1.70E-03	65.4	4.60E-01	
1	1764.85	41	0	2.61	3531.65	3524	14	4.42E-03	42.5	4.55E-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	7.498E+00	7.498E+00	49.54E+00	660.74	
RA-226	1600.00Y	1.00	8.751E+01	8.751E+01	9.574E+01	109.40	
TH-228	1.91Y	1.01	1.568E+01	1.583E+01	0.671E+01	42.40	
			---	---			
Total Activity :			1.107E+02	1.108E+02			

Grand Total Activity : 1.107E+02 1.108E+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/MD
K-40	7.498E+00	4.954E+01	4.738E+01	0.000E+00	0.1
RA-226	8.751E+01	9.574E+01	1.171E+02	0.000E+00	0.7
TH-228	1.583E+01	6.711E+00	8.912E+00	0.000E+00	1.7

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-2.577E+00		3.001E+01	4.837E+01	0.000E+00	-0.053
NA-24	-9.435E-02		4.884E-02	Half-Life too short		
CR-51	-3.958E+01		3.289E+01	5.185E+01	0.000E+00	-0.763
MN-54	4.178E-01		3.452E+00	5.718E+00	0.000E+00	0.073
CO-57	-1.069E+00		3.004E+00	4.862E+00	0.000E+00	-0.220
CO-58	1.705E+00		3.629E+00	6.169E+00	0.000E+00	0.276
FE-59	1.893E+00		7.296E+00	1.226E+01	0.000E+00	0.154
CO-60	-4.012E-01		3.437E+00	5.618E+00	0.000E+00	-0.071
ZN-65	3.564E+00		9.512E+00	1.369E+01	0.000E+00	0.260
SE-75	3.394E+00		4.367E+00	7.354E+00	0.000E+00	0.461
SR-85	2.092E+01		4.167E+00	8.253E+00	0.000E+00	2.534
Y-88	-2.014E+00		4.102E+00	6.349E+00	0.000E+00	-0.317
NB-94	-1.106E+00		3.158E+00	5.140E+00	0.000E+00	-0.215
NB-95	4.907E+00		3.543E+00	6.387E+00	0.000E+00	0.768
ZR-95	-1.115E+01		6.261E+00	9.008E+00	0.000E+00	-1.238
MO-99	-1.517E+02		2.299E+02	3.628E+02	0.000E+00	-0.418
RU-103	7.457E-01		3.832E+00	6.441E+00	0.000E+00	0.116
RU-106	9.785E-01		3.091E+01	5.070E+01	0.000E+00	0.019
AG-110m	2.445E+00		3.025E+00	5.215E+00	0.000E+00	0.469
SN-113	-1.717E+00		4.341E+00	6.989E+00	0.000E+00	-0.246
SB-124	-9.173E-01		8.036E+00	5.724E+00	0.000E+00	-0.160
SB-125	1.470E+00		9.404E+00	1.549E+01	0.000E+00	0.095
TE-129M	-3.821E-01		4.231E+01	6.871E+01	0.000E+00	-0.006
I-131	-9.509E-01		6.803E+00	1.115E+01	0.000E+00	-0.085
BA-133	3.146E+00		5.126E+00	7.513E+00	0.000E+00	0.419
CS-134	9.662E+00		6.202E+00	6.834E+00	0.000E+00	1.414
CS-136	-5.858E+00		5.104E+00	7.644E+00	0.000E+00	-0.766
CS-137	2.865E+00		3.336E+00	5.655E+00	0.000E+00	0.507
CE-139	3.021E+00		3.265E+00	5.436E+00	0.000E+00	0.556
BA-140	-9.249E+00		1.921E+01	3.090E+01	0.000E+00	-0.299
LA-140	5.061E+00		6.399E+00	1.127E+01	0.000E+00	0.449
CE-141	5.704E+00		6.910E+00	1.002E+01	0.000E+00	0.569
CE-144	-2.126E+01		2.582E+01	3.758E+01	0.000E+00	-0.56
EU-152	-3.419E+00		1.114E+01	1.535E+01	0.000E+00	-0.22
EU-154	-6.364E+00		6.246E+00	9.866E+00	0.000E+00	-0.64
AC-228	-8.897E+00		1.321E+01	2.040E+01	0.000E+00	-0.43
TH-232	-8.870E+00		1.317E+01	2.033E+01	0.000E+00	-0.43
U-235	2.248E+00		2.690E+01	3.755E+01	0.000E+00	0.06
U-238	-1.852E+02		3.768E+02	5.887E+02	0.000E+00	-0.31
AM-241	-3.319E+01		2.741E+01	4.232E+01	0.000E+00	-0.78

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A,13L28896-10      ,06/16/2006 14:44,06/07/2006 09:40,    3.128E+00,WG L28896-10 E
B,13L28896-10      ,LIBD                ,06/13/2006 09:43,133L082404
C,K-40     ,YES,   7.498E+00,  4.954E+01,  4.738E+01,,     0.158
C,RA-226   ,YES,   8.751E+01,  9.574E+01,  1.171E+02,,     0.747
C,TH-228   ,YES,   1.583E+01,  6.711E+00,  8.912E+00,,     1.776
C,BE-7     ,NO ,  -2.577E+00,  3.001E+01,  4.837E+01,,    -0.053
C,CR-51    ,NO ,  -3.958E+01,  3.289E+01,  5.185E+01,,    -0.763
C,MN-54    ,NO ,   4.178E-01,  3.452E+00,  5.718E+00,,     0.073
C,CO-57    ,NO ,  -1.069E+00,  3.004E+00,  4.862E+00,,    -0.220
C,CO-58    ,NO ,   1.705E+00,  3.629E+00,  6.169E+00,,     0.276
C,FE-59    ,NO ,   1.893E+00,  7.296E+00,  1.226E+01,,     0.154
C,CO-60    ,NO ,  -4.012E-01,  3.437E+00,  5.618E+00,,    -0.071
C,ZN-65    ,NO ,   3.564E+00,  9.512E+00,  1.369E+01,,     0.260
C,SE-75    ,NO ,   3.394E+00,  4.367E+00,  7.354E+00,,     0.461
C,SR-85    ,NO ,   2.092E+01,  4.167E+00,  8.253E+00,,     2.534
C,Y-88     ,NO ,  -2.014E+00,  4.102E+00,  6.349E+00,,    -0.317
C,NB-94    ,NO ,  -1.106E+00,  3.158E+00,  5.140E+00,,    -0.215
C,NB-95    ,NO ,   4.907E+00,  3.543E+00,  6.387E+00,,     0.768
C,ZR-95    ,NO ,  -1.115E+01,  6.261E+00,  9.008E+00,,    -1.238
C,MO-99    ,NO ,  -1.517E+02,  2.299E+02,  3.628E+02,,    -0.418
C,RU-103   ,NO ,   7.457E-01,  3.832E+00,  6.441E+00,,     0.116
C,RU-106   ,NO ,   9.785E-01,  3.091E+01,  5.070E+01,,     0.019
C,AG-110m  ,NO ,   2.445E+00,  3.025E+00,  5.215E+00,,     0.469
C,SN-113   ,NO ,  -1.717E+00,  4.341E+00,  6.989E+00,,    -0.246
C,SB-124   ,NO ,  -9.173E-01,  8.036E+00,  5.724E+00,,    -0.160
C,SB-125   ,NO ,   1.470E+00,  9.404E+00,  1.549E+01,,     0.095
C,TE-129M  ,NO ,  -3.821E-01,  4.231E+01,  6.871E+01,,    -0.006
C,I-131    ,NO ,  -9.509E-01,  6.803E+00,  1.115E+01,,    -0.085
C,BA-133   ,NO ,   3.146E+00,  5.126E+00,  7.513E+00,,     0.419
C,CS-134   ,NO ,   9.662E+00,  6.202E+00,  6.834E+00,,     1.414
C,CS-136   ,NO ,  -5.858E+00,  5.104E+00,  7.644E+00,,    -0.766
C,CS-137   ,NO ,   2.865E+00,  3.336E+00,  5.655E+00,,     0.507
C,CE-139   ,NO ,   3.021E+00,  3.265E+00,  5.436E+00,,     0.556
C,BA-140   ,NO ,  -9.249E+00,  1.921E+01,  3.090E+01,,    -0.299
C,LA-140   ,NO ,   5.061E+00,  6.399E+00,  1.127E+01,,     0.449
C,CE-141   ,NO ,   5.704E+00,  6.910E+00,  1.002E+01,,     0.569
C,CE-144   ,NO ,  -2.126E+01,  2.582E+01,  3.758E+01,,    -0.566
C,EU-152   ,NO ,  -3.419E+00,  1.114E+01,  1.535E+01,,    -0.223
C,EU-154   ,NO ,  -6.364E+00,  6.246E+00,  9.866E+00,,    -0.645
C,AC-228   ,NO ,  -8.897E+00,  1.321E+01,  2.040E+01,,    -0.436
C,TH-232   ,NO ,  -8.870E+00,  1.317E+01,  2.033E+01,,    -0.436
C,U-235    ,NO ,   2.248E+00,  2.690E+01,  3.755E+01,,     0.060
C,U-238    ,NO ,  -1.852E+02,  3.768E+02,  5.887E+02,,    -0.315
C,AM-241   ,NO ,  -3.319E+01,  2.741E+01,  4.232E+01,,    -0.784
```

Sec. Review: Analyst: LIMS:

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 16-JUN-2006 15:05:04.74
TBE23 03017322 HpGe ********** Aquisition Date/Time: 16-JUN-2006 12:10:43.33

LIMS No., Customer Name, Client ID: WG L28896-11 EXELON/TMI

Sample ID : 23L28896-11
Sample Type : WG
Quantity : 3.08700E+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: 7-JUN-2006 10:25:00.0
Geometry : 233L082404
BKGFILE : 23BG060306MT
Real Time : 0 02:54:08.14
Live time : 0 02:54:01.25

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	6	33.57*	7	29	0.97	67.47	7.94E-02	6.71E-04	252.4	2.74E+00
2	0	92.68*	22	500	1.09	185.60	1.94E+00	2.08E-03	203.0	0.00E+00
3	0	185.69*	34	311	1.25	371.48	2.17E+00	3.21E-03	107.8	
4	0	198.07*	39	332	1.11	396.23	2.11E+00	3.75E-03	89.0	
5	0	238.35*	8	239	0.76	476.73	1.90E+00	7.21E-04	392.6	
6	0	295.04*	61	180	1.24	590.06	1.64E+00	5.85E-03	44.1	
7	0	351.53*	67	183	1.39	702.97	1.44E+00	6.40E-03	44.7	
8	0	583.34*	31	58	1.67	1166.38	9.71E-01	2.99E-03	57.4	
9	0	595.97	58	66	1.61	1191.62	9.56E-01	5.55E-03	31.0	
10	0	609.06*	102	48	1.39	1217.80	9.41E-01	9.74E-03	19.3	
11	0	867.65	31	38	1.29	1734.84	7.32E-01	2.92E-03	44.7	
12	0	1119.89*	32	18	1.09	2239.31	6.16E-01	3.10E-03	35.0	
13	0	1460.99*	12	28	1.98	2921.63	5.10E-01	1.13E-03	150.4	
14	0	1764.71*	8	19	1.41	3529.32	4.38E-01	7.74E-04	133.0	

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-Sigm %Erro
K-40	1460.81	12	10.67*	5.095E-01	1.820E+01	1.820E+01	300.79
RA-226	186.21	34	3.28*	2.174E+00	3.939E+01	3.939E+01	215.58
TH-228	238.63	8	44.60*	1.901E+00	7.444E-01	7.512E-01	785.28
	240.98	------	3.95	1.888E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L28896-11

Acquisition date : 16-JUN-2006 12:10:43

Total number of lines in spectrum	14	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	4	28.57%

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	1.820E+01	1.820E+01	5.473E+01	300.79	
RA-226	1600.00Y	1.00	3.939E+01	3.939E+01	8.491E+01	215.58	
TH-228	1.91Y	1.01	7.444E-01	7.512E-01	58.99E-01	785.28	
			---	---			
Total Activity :			5.833E+01	5.834E+01			

Grand Total Activity : 5.833E+01 5.834E+01

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

Unidentified Energy Lines
Sample ID : 23L28896-11

Acquisition date : 16-JUN-2006 12:10:43

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
6	33.57	7	29	0.97	67.47	65	13	6.71E-04	****	7.94E-02	
0	92.68	22	500	1.09	185.60	181	9	2.08E-03	****	1.94E+00	
0	198.07	39	332	1.11	396.23	393	9	3.75E-03	****	2.11E+00	
0	295.04	61	180	1.24	590.06	586	9	5.85E-03	88.2	1.64E+00	
0	351.53	67	183	1.39	702.97	696	12	6.40E-03	89.5	1.44E+00	
0	583.34	31	58	1.67	1166.38	1160	12	2.99E-03	****	9.71E-01	T
0	595.97	58	66	1.61	1191.62	1185	12	5.55E-03	61.9	9.56E-01	
0	609.06	102	48	1.39	1217.80	1212	12	9.74E-03	38.5	9.41E-01	
0	867.65	31	38	1.29	1734.84	1730	12	2.92E-03	89.3	7.32E-01	
0	1119.89	32	18	1.09	2239.31	2235	10	3.10E-03	70.0	6.16E-01	
0	1764.71	8	19	1.41	3529.32	3523	12	7.74E-04	****	4.38E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	14	
Number of unidentified lines	10	
Number of lines tentatively identified by NID	4	28.57%

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	1.820E+01	1.820E+01	5.473E+01	300.79	
RA-226	1600.00Y	1.00	3.939E+01	3.939E+01	8.491E+01	215.58	
TH-228	1.91Y	1.01	7.444E-01	7.512E-01	58.99E-01	785.28	
			---	---			
Total Activity :			5.833E+01	5.834E+01			

Grand Total Activity : 5.833E+01 5.834E+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/M
K-40	1.820E+01	5.473E+01	4.956E+01	0.000E+00	0.3
RA-226	3.939E+01	8.491E+01	1.409E+02	0.000E+00	0.2
TH-228	7.512E-01	5.899E+00	1.041E+01	0.000E+00	0.(

---- Identified Nuclides ----

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	3.240E+01		3.078E+01	5.520E+01	0.000E+00	0.587
NA-24	-3.868E-02		4.244E-02	Half-Life too short		
CR-51	-1.866E+01		3.479E+01	5.830E+01	0.000E+00	-0.320
MN-54	-4.726E-01		3.199E+00	5.495E+00	0.000E+00	-0.086
CO-57	-1.493E+00		3.591E+00	5.989E+00	0.000E+00	-0.249
CO-58	1.724E+00		3.437E+00	6.162E+00	0.000E+00	0.280
FE-59	-4.730E+00		6.338E+00	1.056E+01	0.000E+00	-0.448
CO-60	1.943E-01		2.965E+00	5.315E+00	0.000E+00	0.037
ZN-65	1.036E+01		7.500E+00	1.294E+01	0.000E+00	0.801
SE-75	6.219E-01		4.761E+00	8.193E+00	0.000E+00	0.076
SR-85	1.590E+01		3.880E+00	7.665E+00	0.000E+00	2.074
Y-88	-4.804E-01		3.563E+00	6.350E+00	0.000E+00	-0.076
NB-94	1.812E+00		3.052E+00	5.495E+00	0.000E+00	0.330
NB-95	1.618E+00		3.327E+00	5.971E+00	0.000E+00	0.271
ZR-95	-6.542E+00		5.922E+00	9.526E+00	0.000E+00	-0.687
MO-99	2.190E+02		2.409E+02	4.416E+02	0.000E+00	0.496
RU-103	2.478E+00		3.832E+00	6.739E+00	0.000E+00	0.368
RU-106	-2.196E+00		2.930E+01	5.095E+01	0.000E+00	-0.043
AG-110m	-2.017E+00		3.082E+00	5.161E+00	0.000E+00	-0.391
SN-113	-7.754E-01		4.515E+00	7.650E+00	0.000E+00	-0.101
SB-124	-6.511E-01		7.809E+00	5.739E+00	0.000E+00	-0.113
SB-125	5.732E+00		9.670E+00	1.694E+01	0.000E+00	0.338
TE-129M	3.002E+01		4.150E+01	7.361E+01	0.000E+00	0.408
I-131	-3.015E+00		7.004E+00	1.176E+01	0.000E+00	-0.256
BA-133	9.508E+00		5.390E+00	8.610E+00	0.000E+00	1.104
CS-134	9.075E+00		6.178E+00	6.842E+00	0.000E+00	1.326
CS-136	1.479E-01		5.067E+00	8.812E+00	0.000E+00	0.017
CS-137	-1.075E+00		3.362E+00	5.752E+00	0.000E+00	-0.187
CE-139	2.799E+00		3.669E+00	6.266E+00	0.000E+00	0.447
BA-140	1.081E+01		1.839E+01	3.239E+01	0.000E+00	0.334
LA-140	3.757E+00		5.027E+00	9.860E+00	0.000E+00	0.381
CE-141	4.722E-01		7.217E+00	1.213E+01	0.000E+00	0.03
CE-144	-3.891E+01		2.777E+01	4.509E+01	0.000E+00	-0.86
EU-152	-1.293E+01		1.227E+01	1.658E+01	0.000E+00	-0.78
EU-154	-1.026E+00		7.450E+00	1.250E+01	0.000E+00	-0.08
AC-228	8.291E+00		1.263E+01	2.188E+01	0.000E+00	0.37
TH-232	8.266E+00		1.260E+01	2.181E+01	0.000E+00	0.37
U-235	-2.472E+00		2.837E+01	4.657E+01	0.000E+00	-0.05
U-238	-1.380E+02		3.535E+02	5.879E+02	0.000E+00	-0.23
AM-241	-1.581E+01		1.998E+01	3.232E+01	0.000E+00	-0.48

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                                                                                  3.087E+00,WG L28896-11 E
A,23L28896-11      ,06/16/2006 15:05,06/07/2006 10:25,
B,23L28896-11      ,LIBD                   ,06/01/2006 10:14,233L082404
C,K-40     ,YES,   1.820E+01,   5.473E+01,   4.956E+01,,    0.367
C,RA-226   ,YES,   3.939E+01,   8.491E+01,   1.409E+02,,    0.280
C,TH-228   ,YES,   7.512E-01,   5.899E+00,   1.041E+01,,    0.072
C,BE-7     ,NO ,   3.240E+01,   3.078E+01,   5.520E+01,,    0.587
C,CR-51    ,NO ,  -1.866E+01,   3.479E+01,   5.830E+01,,   -0.320
C,MN-54    ,NO ,  -4.726E-01,   3.199E+00,   5.495E+00,,   -0.086
C,CO-57    ,NO ,  -1.493E+00,   3.591E+00,   5.989E+00,,   -0.249
C,CO-58    ,NO ,   1.724E+00,   3.437E+00,   6.162E+00,,    0.280
C,FE-59    ,NO ,  -4.730E+00,   6.338E+00,   1.056E+01,,   -0.448
C,CO-60    ,NO ,   1.943E-01,   2.965E+00,   5.315E+00,,    0.037
C,ZN-65    ,NO ,   1.036E+01,   7.500E+00,   1.294E+01,,    0.801
C,SE-75    ,NO ,   6.219E-01,   4.761E+00,   8.193E+00,,    0.076
C,SR-85    ,NO ,   1.590E+01,   3.880E+00,   7.665E+00,,    2.074
C,Y-88     ,NO ,  -4.804E-01,   3.563E+00,   6.350E+00,,   -0.076
C,NB-94    ,NO ,   1.812E+00,   3.052E+00,   5.495E+00,,    0.330
C,NB-95    ,NO ,   1.618E+00,   3.327E+00,   5.971E+00,,    0.271
C,ZR-95    ,NO ,  -6.542E+00,   5.922E+00,   9.526E+00,,   -0.687
C,MO-99    ,NO ,   2.190E+02,   2.409E+02,   4.416E+02,,    0.496
C,RU-103   ,NO ,   2.478E+00,   3.832E+00,   6.739E+00,,    0.368
C,RU-106   ,NO ,  -2.196E+00,   2.930E+01,   5.095E+01,,   -0.043
C,AG-110m  ,NO ,  -2.017E+00,   3.082E+00,   5.161E+00,,   -0.391
C,SN-113   ,NO ,  -7.754E-01,   4.515E+00,   7.650E+00,,   -0.101
C,SB-124   ,NO ,  -6.511E-01,   7.809E+00,   5.739E+00,,   -0.113
C,SB-125   ,NO ,   5.732E+00,   9.670E+00,   1.694E+01,,    0.338
C,TE-129M  ,NO ,   3.002E+01,   4.150E+01,   7.361E+01,,    0.408
C,I-131    ,NO ,  -3.015E+00,   7.004E+00,   1.176E+01,,   -0.256
C,BA-133   ,NO ,   9.508E+00,   5.390E+00,   8.610E+00,,    1.104
C,CS-134   ,NO ,   9.075E+00,   6.178E+00,   6.842E+00,,    1.326
C,CS-136   ,NO ,   1.479E-01,   5.067E+00,   8.812E+00,,    0.017
C,CS-137   ,NO ,  -1.075E+00,   3.362E+00,   5.752E+00,,   -0.187
C,CE-139   ,NO ,   2.799E+00,   3.669E+00,   6.266E+00,,    0.447
C,BA-140   ,NO ,   1.081E+01,   1.839E+01,   3.239E+01,,    0.334
C,LA-140   ,NO ,   3.757E+00,   5.027E+00,   9.860E+00,,    0.381
C,CE-141   ,NO ,   4.722E-01,   7.217E+00,   1.213E+01,,    0.039
C,CE-144   ,NO ,  -3.891E+01,   2.777E+01,   4.509E+01,,   -0.863
C,EU-152   ,NO ,  -1.293E+01,   1.227E+01,   1.658E+01,,   -0.780
C,EU-154   ,NO ,  -1.026E+00,   7.450E+00,   1.250E+01,,   -0.082
C,AC-228   ,NO ,   8.291E+00,   1.263E+01,   2.188E+01,,    0.379
C,TH-232   ,NO ,   8.266E+00,   1.260E+01,   2.181E+01,,    0.379
C,U-235    ,NO ,  -2.472E+00,   2.837E+01,   4.657E+01,,   -0.053
C,U-238    ,NO ,  -1.380E+02,   3.535E+02,   5.879E+02,,   -0.235
C,AM-241   ,NO ,  -1.581E+01,   1.998E+01,   3.232E+01,,   -0.489
```

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

Work Order #: L28895 R1

Exelon

June 23, 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 - L28895
EX001-3ESPTMI-06

06/23/2006 12:58

Sample Receipt

The following samples were received on June 10, 2006 in good condition, unless otherwise noted.

Container ID did not match chain of custody ID for:

COC	Container
WG-TMI-MW-13I-060506-MMM-053	WG-TMI-MW-13I-060506-MMM-056

CRA sent revised COCs on 6/12/06.

R1: The following client ID's were revised:
WG-TMI-SWA3-2-060606-MMM-041 changed to WS-TMI-SWA3-2-060606-MMM-041
WG-TMI-EL-2-060606-MMM-036 changed to WG-TMI-E1-2-060606-MMM-036

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-0S13B-060506-MMM-031	L28895-1	
WG-TMI-MS8-060506-MMM-030	L28895-2	
WG-TMI-MS2-060206-JAS-028	L28895-3	
WG-TMI-TRAINING-CTR-060606-MMM-037	L28895-4	
WG-TMI-E1-2-060606-MMM-036	L28895-5	
WS-TMI-SWA3-2-060606-MMM-041	L28895-6	
WG-TMI-13S-060806-JC-059	L28895-7	
RB-TMI-RB3-060206-JAS-029	L28895-8	
WG-TMI-MW-13I-060806-MMM-056	L28895-9	
WG-TMI-5D-060806-EV-054	L28895-10	
WG-TMI-3I-060806-JC-058	L28895-11	
WG-TMI-7S-060806-JC-057	L28895-12	
WG-TMI-4S-060806-EV-055	L28895-13	

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 - L28895
EX001-3ESPTMI-06

06/23/2006 12:58

Gamma Spectroscopy

Quality Control

Quality control samples were analyzed as WG4136.

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-0S13B-060506-MMM-031	L28895-1	WG4136-1

H-3

Quality Control

Quality control samples were analyzed as WG4139,WG4143.

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 #
WS-TMI-SW-Q9-1-060606-MMM-042	L28875-5	WG4139-3
RB-TMI-RB2-060106-JAS-026	L28896-1	WG4143-3

SR-90

Quality Control

Quality control samples were analyzed as WG4159.

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 - L28895
EX001-3ESPTMI-06

06/23/2006 12:58

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4159.

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-0S13B-060506-MMM-031	L28895-1	WG4159-3

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

06/12/06 09:23

SR #: SR08822

Client: Exelon

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

Project #: EX001-3ESPTMI-06

LIMS #: L28895

Initiated By: BWILKERSON
Init Date: 06/12/06 Receive Date: 06/12/06

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 WG-TMI-MW-13I-060806-MMM-053	N	CONTAINER READS WG-TMI-MW-13I-060806-MMM-056
8	Sample(s) properly preserved and in appropriate container(s)	Y	Ph at or below 2
9	Other (Describe)	Y	WG-TMI-4S-060806-EV-055 APPROX. 2L

L28895

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: Gamma Emitters	Strontium 89/90	Tritium								REMARKS
	6/5/06	1630	WG-TMI-0513B-060506-MMM-031	AQU	2	X	X	X								
	6/5/06	1445	WG-TMI-MS8-060506-MMM-030	AQU	2	X	X	X								
	6/2/06	1305	WG-TMI-MS2-060206-JAS-028	AQU	2	X	X	X								2 ml HNO_3

TOTAL NUMBER OF CONTAINERS: 6

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
① [signature]	6/9/06 1315	① [signature]	6/9/06 1315
② [signature]	6/9/06 1316	②	
③		③	

METHOD OF SHIPMENT:

WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: M. MYLET, J. SKURAT

RECEIVED FOR LABORATORY BY: Pat Marshall DATE: 6/12/06 TIME: 1000

No CRA 06205

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L28895

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: GAMMA EMITTERS	STRONTIUM 89/90	TRITIUM							REMARKS
	6/6/06	1230	WG-TMI-TRAINING CTR.-060606-MMM-037	AQU	2	X	X	X							
	6/6/06	1145	WG-TMI-E1-2-060606-MMM-036	AQU	2	X	X	X							
	6/6/06	1300	WG-TMI-SWA3-2-060606-MMM-041	AQU	2	X	X	X							

TOTAL NUMBER OF CONTAINERS: 6

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [signature]	DATE: 6/9/06 TIME: 1420	RECEIVED BY: ① [signature] - AmerGen	DATE: 6/9/06 TIME: 1420
RELINQUISHED BY: ② [signature] - AmerGen	DATE: 6/9/06 TIME: 1421	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: 6/12/06 TIME: 1000

NO CRA 06212

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L28895

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: GAMMA EMITTERS	STRONTIUM 89 & 90	TRITIUM							REMARKS
	6/8/06	1435	WG-TMI-135-060806-JC-059	AQU	2	X	X	X							20 ml HNO3
	6/2/06	1400	RB-TMI-RB3-060206-JRS-029		2	X	X	X							
	6/8/06	1045	WG-TMI-MW-13I-060806-MMM-053		2	X	X	X							
	6/8/06	0935	WG-TMI-5D-060806-EV-054		2	X	X	X							

TOTAL NUMBER OF CONTAINERS: 8

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [signature]	DATE: 6/9/06 TIME: 1400	RECEIVED BY: ① [signature] - AMERGEN	DATE: 6/9/06 TIME: 1400
RELINQUISHED BY: ② [signature] - AMERGEN	DATE: 6/9/06 TIME: 1401	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, J. SKURAT, J. CLOSE, E. VARNAS

RECEIVED FOR LABORATORY BY: Pat Marshall

DATE: 6/12/06 TIME: 1000

NO CRA 06209

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L28895

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [signature] FOR PRINTED NAME: JASON CLOSE / EVAN VARNAS / MARTIN MYLET

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: CADMIUM & MERCURY	STRONTIUM 90	TRITIUM							REMARKS
	6/8/06	1145	WG-TMI-3I-060806-JC-058	AQU	2	X	X	X							
	6/8/06	1005	WG-TMI-7S-060806-JC-057	AQU	2	X	X	X							18ml HNO_3
	6/8/06	1000	WG-TMI-4S-060806-EV-055	AQU	2	X	X	X							
TOTAL NUMBER OF CONTAINERS					6	HEALTH/CHEMICAL HAZARDS									

RELINQUISHED BY: ① [signature]	DATE: 6/9/06 TIME: 1405	RECEIVED BY: ① [signature]	DATE: 6/9/06 TIME: 1405
RELINQUISHED BY: ② [signature]	DATE: 6/9/06 TIME: 1406	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: JASON CLOSE, EVAN VARNAS

RECEIVED FOR LABORATORY BY: Pat Marshall DATE: 6/12/06 TIME: 1000

NO CRA 06210

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L28895

Charles, Rebecca

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Monday, June 12, 2006 2:25 PM
To: Charles, Rebecca
Cc: Larry.Walton@exeloncorp.com
Subject: RE: Variance reports for Saturday receipts

Hi Rebecca,

Please see the attached revised COCs for corrections.

thanks,
Kathy

From: Charles, Rebecca [mailto:Rebecca.Charles@tbe.com]
Sent: Monday, June 12, 2006 11:21 AM
To: Shaw, Kathy
Cc: Larry.Walton@exeloncorp.com
Subject: Variance reports for Saturday receipts

Kathy,

Several of the IDs on the samples received Saturday did not match the IDs on the paperwork. Please see the attached Variance reports.

Rebecca Charles
Teledyne Brown Engineering
Project Manager
(865) 934-0379
(865) 934-0396 (fax)

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CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [illegible] PRINTED NAME: [illegible]

SEQ. No	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS										REMARKS
	6/8/06	1145	WG-TMI-3I-060806-JC-058	AQU	3		X	X	X							
	6/8/06	1005	WG-TMI-7S-060806-JC-057	AQU	3		X	X	X							15ml WQ
	6/8/06	1000	WG-TMI-4S-060806-EV-055	AQU	3		X	X	X							

TOTAL NUMBER OF CONTAINERS 6 HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① [illegible]	DATE: 6/9/06 TIME: 1005	RECEIVED BY: ① [illegible]	DATE: [illegible] TIME: [illegible]
RELINQUISHED BY: ② [illegible]	DATE: [illegible] TIME: [illegible]	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: [illegible]

RECEIVED FOR LABORATORY BY: DATE: TIME:

No CRA 06210

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

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: [illegible]

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS										REMARKS
	6/8/06	1425	WG-TMI-13S-060806-JC-059	[illegible]	1			X	X	X						20 ml [illegible]
	6/8/06	1400	RB-TMI-RB3-060206-JAS-029	[illegible]	1			X	X	X						
	6/8/06	1045	WG-TMI-MW-13I-060806-MMM-053	056	1			X	X	X						
	6/8/06	0935	WG-TMI-5D-060806-EV-054	L	1			X	X	X						

TOTAL NUMBER OF CONTAINERS: 5

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [signature]	DATE: 6/8/06 TIME: 1400	RECEIVED BY: ① [illegible]	DATE: [illegible] TIME: [illegible]
RELINQUISHED BY: ② [illegible]	DATE: [illegible] TIME: [illegible]	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: [illegible]

RECEIVED FOR LABORATORY BY:

DATE: ____ TIME: ____

No CRA 05209

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: 045126-701

SAMPLER'S SIGNATURE: [illegible] PRINTED NAME: [illegible]

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS										REMARKS
	[illegible]	[illegible]	WG-TMI-TRAINING CTR-060606-MMM-037	[illegible]	2		X	X	X							
	[illegible]	1145	WG-TMI-E1-2-060606-MMM-036	[illegible]	2		X	X	X							
	[illegible]	[illegible]	WG-TMI-SWA3-2-060606-MMM-041	[illegible]	2		X	X	X							
			WS													

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
① [illegible]	[illegible]	1430	① [illegible]	[illegible]	[illegible]
② [illegible]	[illegible]	[illegible]	②		
③			③		

METHOD OF SHIPMENT:

WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: [illegible]

RECEIVED FOR LABORATORY BY:

DATE: TIME:

No CRA 06212

1001 (D) APR 28/97(NF) REV. 0 (F-15)

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): [illegible]

REFERENCE NUMBER: [illegible]

SAMPLER'S SIGNATURE: [illegible] PRINTED NAME: [illegible]

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS	REMARKS
	6/5/06	1630	WG-TMI-0513B-060506-MAM-031				
	6/5/06	1445	WG-TMI-MS8-060506-MAM-030				
	6/2/06	1305	WG-TMI-MS2-060206-JAS-028				

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① [illegible]	DATE: [illegible] TIME: [illegible]	RECEIVED BY: ① [illegible]	DATE: 6/6/06 TIME: 1315
RELINQUISHED BY: ② [illegible]	DATE: [illegible] TIME: [illegible]	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: [illegible]

RECEIVED FOR LABORATORY BY: [illegible]

DATE: TIME:

No CRA 06205

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Charles, Rebecca

From: Charles, Rebecca
Sent: Thursday, June 15, 2006 1:06 PM
To: 'Zigmund.Karpa@exeloncorp.com'; 'Larry.Walton@exeloncorp.com'; Joyce.Tomlinson@exeloncorp.com
Subject: High result TMI

L28895-9,WG-TMI-MW-13I-060806-MMM-056 exceeded flag values for WG,H-3,2250 pCi/l for EX001-3ESPTMI-06 **HIGH

Rebecca Charles
Teledyne Brown Engineering
Project Manager
(865) 934-0379
(865) 934-0396 (fax)

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Thurman, Kim

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Thursday, June 22, 2006 10:02 AM
To: Thurman, Kim
Cc: Larry.Walton@exeloncorp.com
Subject: FW: 45136-29 TMI COCs
Importance: High

Hi Kim,

I sent this to Rebecca yesterday, can you please give me a ETA for completion of these up dates?

Thanks,
Kathy

From: Shaw, Kathy
Sent: Wednesday, June 21, 2006 1:45 PM
To: Rebecca.Charles@tbe.com
Cc: Larry.Walton@exeloncorp.com; 'Joyce.Tomlinson@exeloncorp.com'; Filing
Subject: 45136-29 TMI COCs
Importance: High

Hi Rebecca,

I have attached scanned COCs for changes we made and would like you to up-date in your database. They are addressed by the CRA # in the bottom right corner as follows:

06212 - Add dash between Training-CTR
WG to WS in sample # 041
change L to a 1 in sample # 036

06204 - Remove dash between SWJ
WG to WS in samples # 042 & 035

06202 - Remove "#" in sample #034

03016 - Change all JL to JC

06201 - Change WG to RB in sample # 002

Thanks,

Kathy Shaw - Chemist

Conestoga-Rovers & Associates

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

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 04126-701

SAMPLER'S SIGNATURE: [illegible] PRINTED NAME: [illegible]

SEQ. No.	DATE	TIME	SAMPLE No. Add	SAMPLE TYPE	No. of Containers	PARAMETERS										REMARKS
	[illegible]	1030	WG-TMI-TRAINING-CTR-060606-MMM-037	[illegible]	2		Y	X	X							L28895-4
	[illegible]	1145	WG-TMI-E1-2-060606-MMM-036	[illegible]	2		Y	X	X							5
	[illegible]	[illegible]	~~WG~~-TMI-SWA3-2-060606-MMM-041 WS	[illegible]	2		Y	X	X							-6

TOTAL NUMBER OF CONTAINERS | HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
① [illegible]	[illegible]	1430	① [illegible]	[illegible]	[illegible]
② [illegible]	[illegible]	[illegible]	②		
③			③		

METHOD OF SHIPMENT: WAY BILL No.

White	–Fully Executed Copy
Yellow	–Receiving Laboratory Copy
Pink	–Shipper Copy
Goldenrod	–Sampler Copy

SAMPLE TEAM: [illegible]

RECEIVED FOR LABORATORY BY: DATE: TIME:

No CRA 06212

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Internal Chain of Custody

Internal Chain of Custody

****

Sample # L28895-1 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/10/2006 00:00		099999	Sample Custodian

****

Sample # L28895-1 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-2 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/10/2006 00:00		099999	Sample Custodian

****

Sample # L28895-2 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-3 Containernum 1

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

Relinquish Date	Relinquish By	Received By

Internal Chain of Custody

****

Sample # L28895-3 Containernum 1

Relinquish Date	Received By	
06/10/2006 00:00	099999	Sample Custodian

****

Sample # L28895-3 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-4 Containernum 1

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

Relinquish Date	Received By	
06/10/2006 00:00	099999	Sample Custodian

****

Sample # L28895-4 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-5 Containernum 1

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

Relinquish Date	Received By	
06/10/2006 00:00	099999	Sample Custodian

****

Sample # L28895-5 Containernum 2

Prod	Analyst
GELI	DW

Internal Chain of Custody

****

Sample # L28895-5 Containernum 2

H-3	EJ
SR-90 (FAST)	LCB

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-6 Containernum 1

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian

****

Sample # L28895-6 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-7 Containernum 1

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian

****

Sample # L28895-7 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian

Internal Chain of Custody

****

Sample # L28895-7 Containernum 2

Relinquish Date			Received By	
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-8 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/10/2006 00:00		099999	Sample Custodian

****

Sample # L28895-8 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-9 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/10/2006 00:00		099999	Sample Custodian

****

Sample # L28895-9 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

06/20/06 15:24 Teledyne Brown Engineering
Internal Chain of Custody

****
Sample # L28895-10 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/10/2006 00:00		099999	Sample Custodian

****
Sample # L28895-10 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****
Sample # L28895-11 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/10/2006 00:00		099999	Sample Custodian

****
Sample # L28895-11 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****
Sample # L28895-12 Containernum 1

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

Relinquish Date	Relinquish By	Received By

Internal Chain of Custody

****

Sample # L28895-12 Containernum 1

Relinquish Date	Received By	
06/10/2006 00:00	099999	Sample Custodian

****

Sample # L28895-12 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28895-13 Containernum 1

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

Relinquish Date	Received By	
06/10/2006 00:00	099999	Sample Custodian

****

Sample # L28895-13 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/10/2006 00:00			099999	Sample Custodian
06/12/2006 11:18	030854	Donna Webb	029728	Lauren Larsen
06/12/2006 11:18	099999	Sample Custodian	030854	Donna Webb
06/12/2006 14:07	029728	Lauren Larsen	030854	Donna Webb
06/12/2006 14:08	030854	Donna Webb	099999	Sample Custodian

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28895

****

L28895-1 WG WG-TMI-0S13B-060506-MMM-031

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-2 WG WG-TMI-MS8-060506-MMM-030

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-3 WG WG-TMI-MS2-060206-JAS-028

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-4 WG WG-TMI-TRAINING-CTR-060606-MMM-037

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-5 WG WG-TMI-E1-2-060606-MMM-036

Process step	Prod	Analyst	Date
Login		KTHURMAN	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28895

L28895-5 **WG** **WG-TMI-E1-2-060606-MMM-036**

Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-6 **WG** **WS-TMI-SWA3-2-060606-MMM-041**

Process step	Prod	Analyst	Date
Login		KTHURMAN	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-7 **WG** **WG-TMI-13S-060806-JC-059**

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/15/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-8 **WG** **RB-TMI-RB3-060206-JAS-029**

Process step	Prod	Analyst	Date
Login		RCHARLES	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/15/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-9 **WG** **WG-TMI-MW-13I-060806-MMM-056**

Process step	Prod	Analyst	Date
Login		RCHARLES	06/10/06
Aliquot	GELI	DW	06/12/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	LCB	06/14/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/15/06
Count Room	SR-90 (FAST)	KOJ	06/20/06

****

L28895-10 **WG** **WG-TMI-5D-060806-EV-054**

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/10/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28895

L28895-10	**WG**	**WG-TMI-5D-060806-EV-054**		
Aliquot	GELI		DW	06/12/06
Aliquot	H-3		EJ	06/12/06
Aliquot	SR-90	(FAST)	LCB	06/14/06
Count Room	GELI		KPW	06/15/06
Count Room	H-3		KOJ	06/15/06
Count Room	SR-90	(FAST)	KOJ	06/20/06

****

L28895-11	**WG**	**WG-TMI-3I-060806-JC-058**		
Process step	Prod		Analyst	Date
Login			BWILKERSON	06/10/06
Aliquot	GELI		DW	06/12/06
Aliquot	H-3		EJ	06/12/06
Aliquot	SR-90	(FAST)	LCB	06/14/06
Count Room	GELI		KPW	06/15/06
Count Room	H-3		KOJ	06/15/06
Count Room	SR-90	(FAST)	KOJ	06/20/06

****

L28895-12	**WG**	**WG-TMI-7S-060806-JC-057**		
Process step	Prod		Analyst	Date
Login			BWILKERSON	06/10/06
Aliquot	GELI		DW	06/12/06
Aliquot	H-3		EJ	06/12/06
Aliquot	SR-90	(FAST)	LCB	06/14/06
Count Room	GELI		KPW	06/15/06
Count Room	H-3		KOJ	06/14/06
Count Room	SR-90	(FAST)	KOJ	06/20/06

****

L28895-13	**WG**	**WG-TMI-4S-060806-EV-055**		
Process step	Prod		Analyst	Date
Login			BWILKERSON	06/10/06
Aliquot	GELI		DW	06/12/06
Aliquot	H-3		EJ	06/13/06
Aliquot	SR-90	(FAST)	LCB	06/14/06
Count Room	GELI		KPW	06/15/06
Count Room	H-3		KOJ	06/14/06
Count Room	SR-90	(FAST)	KOJ	06/20/06

Analytical Results Summary

Report of Analysis

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-0S13B-060506-MMM-031**
Station:
Description:
LIMS Number: L28895-1

Collect Start: 06/05/2006 16:30
Collect Stop:
Receive Date: 06/10/2006

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	2010	**2.61E+02**	1.07E+02	1.63E+02	pCi/L		10	ml		06/14/06	135	M	+			
TOTAL SR	2018	1.96E-01	6.71E-01	**1.09E+00**	pCi/L		450	ml	06/05/06 16:30	06/20/06	400	M	U			
MN-54	2007	-5.51E-01	3.29E+00	**5.34E+00**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
CO-58	2007	6.69E-01	3.59E+00	**5.99E+00**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
FE-59	2007	5.15E+00	7.01E+00	**1.22E+01**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
CO-60	2007	4.91E+00	3.26E+00	**6.17E+00**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
ZN-65	2007	1.02E+01	7.43E+00	**1.35E+01**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
NB-95	2007	1.35E+00	3.46E+00	**5.88E+00**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
ZR-95	2007	-1.05E+00	6.08E+00	**9.93E+00**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
CS-134	2007	2.12E+00	4.50E+00	**6.46E+00**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
CS-137	2007	-8.84E-01	3.60E+00	**5.66E+00**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
BA-140	2007	-4.21E+00	1.83E+01	**2.98E+01**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	Sec	U		No	
LA-140	2007	1.22E+00	6.17E+00	**1.03E+01**	pCi/L		3045.25	ml	06/05/06 16:30	06/15/06	9443	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

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-MS8-060506-MMM-030**
Station:
Description:
LIMS Number: L28895-2

Collect Start: 06/05/2006 14:45
Collect Stop:
Receive Date: 06/10/2006

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	2010	**7.99E+02**	1.26E+02	1.68E+02	pCi/L		10	ml		06/14/06	135	M	+			
TOTAL SR	2018	4.77E-01	6.29E-01	**1.00E+00**	pCi/L		450	ml	06/05/06 14:45	06/20/06	400	M	U			
K-40	2007	**8.97E+01**	4.79E+01	4.97E+01	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	+		Yes	
MN-54	2007	2.01E+00	2.77E+00	**4.74E+00**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
CO-58	2007	-3.86E+00	3.13E+00	**4.73E+00**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
FE-59	2007	6.25E+00	6.59E+00	**1.16E+01**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
CO-60	2007	2.06E+00	2.73E+00	**4.79E+00**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
ZN-65	2007	3.53E+00	6.26E+00	**1.08E+01**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
NB-95	2007	2.75E+00	3.01E+00	**5.22E+00**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
ZR-95	2007	-1.31E-02	5.24E+00	**8.61E+00**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
CS-134	2007	8.14E+00	6.61E+00	**5.78E+00**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
CS-137	2007	1.15E+00	2.87E+00	**4.85E+00**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
BA-140	2007	-2.75E+00	1.72E+01	**2.77E+01**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	Sec	U		No	
LA-140	2007	-2.85E+00	4.94E+00	**7.70E+00**	pCi/L		3121.04	ml	06/05/06 14:45	06/15/06	16206	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

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-MS2-060206-JAS-028**
Station:
Description:
LIMS Number: L28895-3

Collect Start: 06/02/2006 13:05
Collect Stop:
Receive Date: 06/10/2006

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	2010	1.09E+02	9.80E+01	**1.56E+02**	pCi/L		10	ml		06/14/06	135	M	U			
TOTAL SR	2018	2.08E-01	6.44E-01	**1.05E+00**	pCi/L		450	ml	06/02/06 13:05	06/20/06	400	M	U			
MN-54	2007	1.40E+00	3.31E+00	**5.56E+00**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
CO-58	2007	-2.53E-01	3.45E+00	**5.65E+00**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
FE-59	2007	2.32E+00	7.23E+00	**1.20E+01**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
CO-60	2007	-2.55E+00	2.94E+00	**4.52E+00**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
ZN-65	2007	5.63E+00	8.08E+00	**1.17E+01**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
NB-95	2007	1.81E-01	3.54E+00	**5.84E+00**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
ZR-95	2007	-6.99E+00	6.25E+00	**9.71E+00**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
CS-134	2007	1.06E+01	7.68E+00	**6.27E+00**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
CS-137	2007	-1.28E+00	3.42E+00	**5.57E+00**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
BA-140	2007	1.33E+01	2.32E+01	**3.87E+01**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	
LA-140	2007	4.64E+00	6.70E+00	**1.16E+01**	pCi/L		3055.5	ml	06/02/06 13:05	06/15/06	16537	Sec	U		No	

Flag Values
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MDC - Minimum Detectable Concentration

Report of Analysis

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-TRAINING-CTR-060606-MMM-037**
Station:
Description:
LIMS Number: L28895-4

Collect Start: 06/06/2006 12:30
Collect Stop:
Receive Date: 06/10/2006

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	2010	-2.53E+01	1.01E+02	**1.68E+02**	pCi/L		10	ml		06/14/06	135	M	U		
TOTAL SR	2018	2.84E-02	7.04E-01	**1.16E+00**	pCi/L		450	ml	06/06/06 12:30	06/20/06	400	M	U		
K-40	2007	**1.01E+02**	4.74E+01	4.94E+01	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	+		Yes
MN-54	2007	2.23E-01	3.21E+00	**5.31E+00**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
CO-58	2007	-2.14E+00	3.28E+00	**5.26E+00**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
FE-59	2007	4.34E+00	6.77E+00	**1.15E+01**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
CO-60	2007	3.85E-01	3.24E+00	**5.40E+00**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
ZN-65	2007	1.31E+01	8.91E+00	**1.36E+01**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
NB-95	2007	2.21E+00	3.31E+00	**5.66E+00**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
ZR-95	2007	-2.02E+00	6.05E+00	**9.68E+00**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
CS-134	2007	2.98E+01	6.65E+00	**7.42E+00**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U*		No
CS-137	2007	1.24E+00	3.32E+00	**5.54E+00**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
BA-140	2007	5.16E+00	1.76E+01	**2.90E+01**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No
LA-140	2007	5.61E+00	5.75E+00	**1.02E+01**	pCi/L		3107.49	ml	06/06/06 12:30	06/15/06	23556	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
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High = Activity concentration exceeds customer reporting value
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H = High recovery

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Yes = Peak identified in gamma spectrum
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MDC - Minimum Detectable Concentration

Report of Analysis

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-E1-2-060606-MMM-036**
Station:
Description:
LIMS Number: L28895-5

Collect Start: 06/06/2006 11:45
Collect Stop:
Receive Date: 06/10/2006

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	2010	-3.21E+01	1.00E+02	**1.67E+02**	pCi/L		10	ml		06/14/06	135	M	U		
TOTAL SR	2018	1.81E-01	7.22E-01	**1.18E+00**	pCi/L		450	ml	06/06/06 11:45	06/20/06	400	M	U		
MN-54	2007	1.10E+00	2.81E+00	**4.89E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U		No
CO-58	2007	5.55E-01	3.02E+00	**5.19E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U		No
FE-59	2007	5.22E-01	5.26E+00	**9.22E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U		No
CO-60	2007	-9.29E-01	2.89E+00	**4.89E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U		No
ZN-65	2007	3.34E+01	8.16E+00	**1.48E+01**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U*		No
NB-95	2007	7.84E+00	3.36E+00	**6.23E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U*		No
ZR-95	2007	-2.72E+00	5.49E+00	**8.45E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U		No
CS-134	2007	5.47E+01	4.90E+00	**9.59E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U*		No
CS-137	2007	1.79E+00	3.03E+00	**5.32E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U		No
BA-140	2007	2.24E+01	1.58E+01	**2.80E+01**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U		No
LA-140	2007	3.31E+00	5.14E+00	**9.39E+00**	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	U		No
TH-228	2007	**9.40E+00**	5.92E+00	9.13E+00	pCi/L		3079.79	ml	06/06/06 11:45	06/15/06	17206	Sec	+		Yes

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

06/23/06 13:37

L28895

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WS-TMI-SWA3-2-060606-MMM-041**
Station:
Description:
LIMS Number: L28895-6

Collect Start: 06/06/2006 13:00
Collect Stop:
Receive Date: 06/10/2006

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	2010	3.19E+01	1.02E+02	**1.66E+02**	pCi/L		10	ml		06/14/06	135	M	U		
TOTAL SR	2018	-1.59E-01	6.57E-01	**1.09E+00**	pCi/L		450	ml	06/06/06 13:00	06/20/06	400	M	U		
MN-54	2007	-2.33E+00	3.20E+00	**5.02E+00**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
CO-58	2007	-1.71E-01	3.10E+00	**5.10E+00**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
FE-59	2007	4.33E+00	6.46E+00	**1.13E+01**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
CO-60	2007	2.42E-01	2.99E+00	**4.92E+00**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
ZN-65	2007	7.09E+00	6.55E+00	**1.18E+01**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
NB-95	2007	1.04E-01	2.97E+00	**4.96E+00**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
ZR-95	2007	-4.48E+00	5.69E+00	**8.66E+00**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
CS-134	2007	-3.61E+00	3.25E+00	**5.01E+00**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
CS-137	2007	5.13E+00	3.29E+00	**5.93E+00**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
BA-140	2007	2.28E+00	1.72E+01	**2.88E+01**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No
LA-140	2007	1.14E+00	5.66E+00	**9.50E+00**	pCi/L		3215.48	ml	06/06/06 13:00	06/15/06	8671	Sec	U		No

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
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MDC - Minimum Detectable Concentration

Report of Analysis

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-13S-060806-JC-059**
Station:
Description:
LIMS Number: L28895-7

Collect Start: 06/08/2006 14:35
Collect Stop:
Receive Date: 06/10/2006

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	2010	**4.03E+02**	1.15E+02	1.68E+02	pCi/L		10	ml		06/15/06	135	M	+		
TOTAL SR	2018	4.30E-01	4.82E-01	**7.63E-01**	pCi/L		450	ml	06/08/06 14:35	06/20/06	400	M	U		
MN-54	2007	-3.22E+00	3.28E+00	**4.99E+00**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No
CO-58	2007	-3.72E+00	3.54E+00	**5.39E+00**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No
FE-59	2007	-3.45E+00	6.83E+00	**1.08E+01**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No
CO-60	2007	4.21E-01	3.50E+00	**5.85E+00**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U*		No
ZN-65	2007	1.62E+01	9.36E+00	**1.53E+01**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No
NB-95	2007	3.38E+00	3.63E+00	**6.34E+00**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No
ZR-95	2007	-1.35E+00	5.91E+00	**9.63E+00**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U*		No
CS-134	2007	1.48E+01	6.89E+00	**7.25E+00**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No
CS-137	2007	-2.85E+00	3.65E+00	**5.51E+00**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No
BA-140	2007	-3.46E+00	1.68E+01	**2.75E+01**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No
LA-140	2007	1.75E+00	5.84E+00	**9.80E+00**	pCi/L		3045.86	ml	06/08/06 14:35	06/15/06	9652	Sec	U		No

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MDC - Minimum Detectable Concentration

Report of Analysis

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **RB-TMI-RB3-060206-JAS-029**
Station:
Description:
LIMS Number: L28895-8

Collect Start: 06/02/2006 14:00
Collect Stop:
Receive Date: 06/10/2006

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	2010	**2.61E+02**	1.11E+02	1.70E+02	pCi/L		10	ml		06/15/06	135	M	+			
TOTAL SR	2018	3.04E-01	3.98E-01	**6.35E-01**	pCi/L		450	ml	06/02/06 14:00	06/20/06	400	M	U			
MN-54	2007	-3.52E-02	3.02E+00	**4.92E+00**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
CO-58	2007	1.08E+00	3.22E+00	**5.37E+00**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
FE-59	2007	8.21E+00	6.75E+00	**1.22E+01**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
CO-60	2007	1.39E+00	3.32E+00	**5.61E+00**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
ZN-65	2007	2.12E+00	6.69E+00	**1.13E+01**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
NB-95	2007	-4.37E-01	3.36E+00	**5.47E+00**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
ZR-95	2007	3.06E+00	5.82E+00	**9.87E+00**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
CS-134	2007	4.56E+00	6.85E+00	**5.42E+00**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
CS-137	2007	8.78E-01	3.36E+00	**5.65E+00**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
BA-140	2007	2.02E+01	2.06E+01	**3.57E+01**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	Sec	U		No	
LA-140	2007	-6.59E-01	7.06E+00	**1.14E+01**	pCi/L		3097.91	ml	06/02/06 14:00	06/15/06	15306	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

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-MW-13I-060806-MMM-056**
Station:
Description:
LIMS Number: L28895-9

Collect Start: 06/08/2006 10:45
Collect Stop:
Receive Date: 06/10/2006

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	2010	**2.25E+03**	1.61E+02	1.70E+02	pCi/L		10	ml		06/15/06	135	M	+	High	
TOTAL SR	2018	-2.30E-02	5.55E-01	**9.16E-01**	pCi/L		450	ml	06/08/06 10:45	06/20/06	400	M	U		
MN-54	2007	-3.52E-01	3.43E+00	**5.58E+00**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U		No
CO-58	2007	4.00E-01	3.48E+00	**5.74E+00**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U		No
FE-59	2007	-5.89E-01	6.42E+00	**1.06E+01**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U		No
CO-60	2007	2.10E+00	3.21E+00	**5.56E+00**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U*		No
ZN-65	2007	2.74E+01	9.39E+00	**1.63E+01**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U		No
NB-95	2007	6.35E+00	4.17E+00	**6.49E+00**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U		No
ZR-95	2007	-1.89E+00	6.32E+00	**9.92E+00**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U*		No
CS-134	2007	2.31E+01	5.29E+00	**8.93E+00**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U		No
CS-137	2007	1.49E-01	3.53E+00	**5.85E+00**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U		No
BA-140	2007	1.05E+01	1.69E+01	**2.82E+01**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	Sec	U		No
LA-140	2007	2.20E+00	5.35E+00	**9.21E+00**	pCi/L		3058.61	ml	06/08/06 10:45	06/15/06	14725	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

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-5D-060806-EV-054**
Station:
Description:
LIMS Number: L28895-10

Collect Start: 06/08/2006 09:35
Collect Stop:
Receive Date: 06/10/2006

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	2010	**2.98E+02**	1.12E+02	1.69E+02	pCi/L		10	ml		06/15/06	135	M	+			
TOTAL SR	2018	2.13E-01	3.58E-01	**5.74E-01**	pCi/L		450	ml	06/08/06 09:35	06/20/06	400	M	U			
MN-54	2007	1.33E+00	3.31E+00	**5.91E+00**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
CO-58	2007	8.38E-01	3.22E+00	**5.73E+00**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
FE-59	2007	-1.52E+00	6.18E+00	**1.08E+01**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
CO-60	2007	-1.47E+00	3.05E+00	**5.18E+00**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
ZN-65	2007	2.39E+00	6.15E+00	**1.13E+01**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
NB-95	2007	2.74E+00	3.29E+00	**6.06E+00**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
ZR-95	2007	-2.26E+00	5.49E+00	**9.33E+00**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
CS-134	2007	3.18E+00	4.30E+00	**6.64E+00**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
CS-137	2007	-1.36E+00	3.69E+00	**6.28E+00**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
BA-140	2007	-1.46E+01	1.66E+01	**2.69E+01**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	Sec	U		No	
LA-140	2007	6.34E+00	5.73E+00	**1.13E+01**	pCi/L		3083.74	ml	06/08/06 09:35	06/15/06	9816	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

06/23/06 13:37

L28895

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-3I-060806-JC-058**
Station:
Description:
LIMS Number: L28895-11

Collect Start: 06/08/2006 11:45
Collect Stop:
Receive Date: 06/10/2006

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	2010	**2.92E+02**	1.12E+02	1.69E+02	pCi/L		10	ml		06/15/06	135	M	+		
TOTAL SR	2018	7.77E-01	5.43E-01	**8.40E-01**	pCi/L		450	ml	06/08/06 11:45	06/20/06	400	M	U		
MN-54	2007	1.12E+00	2.40E+00	**4.01E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
CO-58	2007	-3.83E+00	2.38E+00	**3.67E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
FE-59	2007	2.65E-01	4.75E+00	**7.76E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
CO-60	2007	1.78E+00	2.27E+00	**3.90E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
ZN-65	2007	1.16E+01	6.03E+00	**9.22E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U*		No
NB-95	2007	2.22E+00	2.36E+00	**4.03E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
ZR-95	2007	-2.74E+00	4.22E+00	**6.78E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
CS-134	2007	1.33E+01	5.86E+00	**4.90E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U*		No
CS-137	2007	1.31E+00	2.55E+00	**4.30E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
BA-140	2007	-8.57E+00	1.25E+01	**1.99E+01**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
LA-140	2007	-2.38E-03	3.68E+00	**6.04E+00**	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	U		No
TH-228	2007	**9.31E+00**	5.61E+00	7.13E+00	pCi/L		3041.07	ml	06/08/06 11:45	06/15/06	31397	Sec	+		Yes

Flag Values
U = Compound/Analyte not detected or less than 3 sigma
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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

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-7S-060806-JC-057**
Station:
Description:
LIMS Number: L28895-12

Collect Start: 06/08/2006 10:05
Collect Stop:
Receive Date: 06/10/2006

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	2010	**2.37E+02**	1.17E+02	1.68E+02	pCi/L		10	ml		06/14/06	60	M	+			
TOTAL SR	2018	4.90E-01	7.34E-01	**1.18E+00**	pCi/L		450	ml	06/08/06 10:05	06/20/06	400	M	U			
MN-54	2007	-3.17E+00	3.48E+00	**5.40E+00**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U		No	
CO-58	2007	-1.24E+00	3.37E+00	**5.43E+00**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U		No	
FE-59	2007	7.60E+00	6.51E+00	**1.18E+01**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U		No	
CO-60	2007	1.44E-01	3.38E+00	**5.54E+00**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U*		No	
ZN-65	2007	1.69E+01	7.78E+00	**1.36E+01**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U		No	
NB-95	2007	5.08E+00	3.39E+00	**6.16E+00**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U		No	
ZR-95	2007	1.64E+00	6.02E+00	**9.97E+00**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U		No	
CS-134	2007	1.86E+01	5.85E+00	**7.18E+00**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U*		No	
CS-137	2007	7.59E-01	3.50E+00	**5.82E+00**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U		No	
BA-140	2007	4.97E+00	1.70E+01	**2.87E+01**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	Sec	U		No	
LA-140	2007	-2.28E+00	5.08E+00	**7.92E+00**	pCi/L		3087.73	ml	06/08/06 10:05	06/15/06	8729	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

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MDC - Minimum Detectable Concentration

Report of Analysis

06/23/06 13:37

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

L28895

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-4S-060806-EV-055**
Station:
Description:
LIMS Number: L28895-13

Collect Start: 06/08/2006 10:00
Collect Stop:
Receive Date: 06/10/2006

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	2010	7.82E+01	1.06E+02	**1.66E+02**	pCi/L		10	ml		06/14/06	60	M	U			
TOTAL SR	2018	6.89E-01	6.08E-01	**9.55E-01**	pCi/L		450	ml	06/08/06 10:00	06/20/06	400	M	U			
MN-54	2007	4.97E-01	3.69E+00	**6.13E+00**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
CO-58	2007	1.76E+00	3.74E+00	**6.39E+00**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
FE-59	2007	-3.45E-01	7.96E+00	**1.31E+01**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
CO-60	2007	1.12E+00	3.73E+00	**6.36E+00**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
ZN-65	2007	-1.92E+00	9.73E+00	**1.31E+01**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
NB-95	2007	9.59E-01	3.62E+00	**6.11E+00**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
ZR-95	2007	-5.89E+00	6.40E+00	**9.81E+00**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
CS-134	2007	2.10E+00	5.45E+00	**6.61E+00**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
CS-137	2007	-3.50E+00	4.01E+00	**6.00E+00**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
BA-140	2007	-5.95E+00	1.77E+01	**2.87E+01**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	Sec	U		No	
LA-140	2007	-1.11E+00	6.26E+00	**9.97E+00**	pCi/L		2986.9	ml	06/08/06 10:00	06/15/06	8156	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
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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

QC Results Summary

QC Summary Report for L28895

6/23/2006 3:55:13PM

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
WG4139-1	H-3	WO	06/13/2006 18:05	< 1.690E+00	pCi/Total	U	P
WG4143-1		WO	06/14/2006 15:03	< 1.660E+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
WG4139-2	H-3	WO	06/13/2006 19:08	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										
WG4143-2		WO	06/14/2006 16:07	5.05E+002	4.530E+02	pCi/Total	89.7	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
WG4139-3 L28875-5	H-3	WG	06/13/2006 19:27	< 1.700E+02	< 1.840E+02	pCi/L		<30	**	NE
WG4143-3 L28896-1		WG	06/14/2006 16:27	< 1.670E+02	< 1.720E+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 L28895

6/23/2006 3:55:13PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28895 **H-3**

Associated Samples for **WG4139**

SAMPLENUM	CLIENTID
L28895-1	WG-TMI-0S13B-060506-MMM-031
L28895-2	WG-TMI-MS8-060506-MMM-030
L28895-3	WG-TMI-MS2-060206-JAS-028
L28895-4	WG-TMI-TRAINING-CTR-060606-MMM-037
L28895-5	WG-TMI-E1-2-060606-MMM-036
L28895-6	WS-TMI-SWA3-2-060606-MMM-041
L28895-7	WG-TMI-13S-060806-JC-059
L28895-8	RB-TMI-RB3-060206-JAS-029
L28895-9	WG-TMI-MW-13I-060806-MMM-056
L28895-10	WG-TMI-5D-060806-EV-054
L28895-11	WG-TMI-3I-060806-JC-058

Associated Samples for **WG4143**

SAMPLENUM	CLIENTID
L28895-12	WG-TMI-7S-060806-JC-057
L28895-13	WG-TMI-4S-060806-EV-055

+	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 L28895

6/23/2006 3:55:13PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

SR-90

Method Blank Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Blank Result	Units	Qualifier	P/F
WG4159-1	SR-90	WO	06/20/2006 6:25	< 4.280E-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
WG4159-2	SR-90	WO	06/19/2006 19:45	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

L28895 **SR-90**

Associated Samples for **WG4159**

SAMPLENUM	CLIENTID
L28895-1	WG-TMI-0S13B-060506-MMM-031
L28895-2	WG-TMI-MS8-060506-MMM-030
L28895-3	WG-TMI-MS2-060206-JAS-028
L28895-4	WG-TMI-TRAINING-CTR-060606-MMM-037
L28895-5	WG-TMI-E1-2-060606-MMM-036
L28895-6	WS-TMI-SWA3-2-060606-MMM-041
L28895-7	WG-TMI-13S-060806-JC-059
L28895-8	RB-TMI-RB3-060206-JAS-029
L28895-9	WG-TMI-MW-13I-060806-MMM-056
L28895-10	WG-TMI-5D-060806-EV-054
L28895-11	WG-TMI-3I-060806-JC-058
L28895-12	WG-TMI-7S-060806-JC-057
L28895-13	WG-TMI-4S-060806-EV-055

+	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 L28895

6/23/2006 3:55:13PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

TOTAL SR

Duplicate Summary

TBE Sample ID	Radionuclide	Matrix	Count Date/Time	Original Result	DUP Result	Units	RPD	Range	Qualifier	P/F
WG4159-3 L28895-1	TOTAL SR	WG	06/20/2006 6:25	< 1.090E+00	< 1.170E+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 23 2006, 04:09 pm

Work Order: L28895 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
L28895-1		H-3		10 ml			0		14-jun-06 00:26	LS5	606	135	3.32	135	.202		EJ
WG-TMI-0S13B-060506-MMM-031																	
Activity: 2.61E+02 * Error: 1.07E+02			MDC: 1.63E+02														
L28895-2		H-3		10 ml			0		14-jun-06 02:45	LS5	917	135	3.32	135	.196		EJ
WG-TMI-MS8-060506-MMM-030																	
Activity: 7.99E+02 * Error: 1.26E+02			MDC: 1.68E+02														
L28895-3		H-3		10 ml			0		14-jun-06 05:04	LS5	517	135	3.32	135	.212		EJ
WG-TMI-MS2-060206-JAS-028																	
Activity: 1.09E+02 Error: 9.8E+01			MDC: 1.56E+02 *														
L28895-4		H-3		10 ml			0		14-jun-06 07:22	LS5	433	135	3.32	135	.196		EJ
WG-TMI-TRAINING-CTR-060606-MMM-037																	
Activity: -2.53E+01 Error: 1.01E+02			MDC: 1.68E+02 *														
L28895-5		H-3		10 ml			0		14-jun-06 09:41	LS5	429	135	3.32	135	.197		EJ
WG-TMI-E1-2-060606-MMM-036																	
Activity: -3.21E+01 Error: 1E+02			MDC: 1.67E+02 *														
L28895-6		H-3		10 ml			0		14-jun-06 12:00	LS5	467	135	3.32	135	.198		EJ
WS-TMI-SWA3-2-060606-MMM-041																	
Activity: 3.19E+01 Error: 1.02E+02			MDC: 1.66E+02 *														
L28895-7		H-3		10 ml			0		15-jun-06 01:52	LS5	702	135	3.42	135	.199		EJ
WG-TMI-13S-060806-JC-059																	
Activity: 4.03E+02 * Error: 1.15E+02			MDC: 1.68E+02														
L28895-8		H-3		10 ml			0		15-jun-06 04:11	LS5	616	135	3.42	135	.197		EJ
RB-TMI-RB3-060206-JAS-029																	
Activity: 2.61E+02 * Error: 1.11E+02			MDC: 1.7E+02														
L28895-9		H-3		10 ml			0		15-jun-06 06:29	LS5	1787	135	3.42	135	.197		EJ
WG-TMI-MW-13I-060806-MMM-056																	
Activity: 2.25E+03 * Error: 1.61E+02			MDC: 1.7E+02														
L28895-10		H-3		10 ml			0		15-jun-06 08:47	LS5	639	135	3.42	135	.198		EJ
WG-TMI-5D-060806-EV-054																	
Activity: 2.98E+02 * Error: 1.12E+02			MDC: 1.69E+02														
L28895-11		H-3		10 ml			0		15-jun-06 11:05	LS5	635	135	3.42	135	.198		EJ
WG-TMI-3I-060806-JC-058																	
Activity: 2.92E+02 * Error: 1.12E+02			MDC: 1.69E+02														
L28895-12		H-3		10 ml			0		14-jun-06 17:31	LS7	169	60	1.71	60	.211		EJ
WG-TMI-7S-060806-JC-057																	
Activity: 2.37E+02 * Error: 1.17E+02			MDC: 1.68E+02														

Raw Data Sheet (rawdata)
Jun 23 2006, 04:09 pm

Work Order: *L28895* 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
L28895-13		H-3		10 ml			0		14-jun-06 18:35	LS7	125	60	1.71	60	.213		EJ

WG-TMI-4S-060806-EV-055
Activity: 7.82E+01 Error: 1.06E+02 MDC: 1.66E+02 *

Raw Data Sheet (rawdata)
Jun 23 2006, 04:09 pm

Work Order: L28895 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
L28895-1		TOTAL SR	05-jun-06 16:30	450 ml	19-jun-06 16:15		0	52.42	20-jun-06 06:28	Y1A	293	400	279	400	.341	.999	LCB
WG-TMI-0S13B-060506-MMM-031																	
Activity: 1.96E-01 Error: 6.71E-01 MDC: 1.09E+00 *																	
L28895-2		TOTAL SR	05-jun-06 14:45	450 ml	19-jun-06 16:15		0	55.38	20-jun-06 06:28	Y1B	316	400	279	400	.351	.999	LCB
WG-TMI-MS8-060506-MMM-030																	
Activity: 4.77E-01 Error: 6.29E-01 MDC: 1E+00 *																	
L28895-3		TOTAL SR	02-jun-06 13:05	450 ml	19-jun-06 16:15		0	55.91	20-jun-06 06:28	Y1C	316	400	300	400	.345	.999	LCB
WG-TMI-MS2-060206-JAS-028																	
Activity: 2.08E-01 Error: 6.44E-01 MDC: 1.05E+00 *																	
L28895-4		TOTAL SR	06-jun-06 12:30	450 ml	19-jun-06 16:15		0	48.66	20-jun-06 06:28	Y1D	307	400	305	400	.362	.999	LCB
WG-TMI-TRAINING-CTR-060606-MMM-037																	
Activity: 2.84E-02 Error: 7.04E-01 MDC: 1.16E+00 *																	
L28895-5		TOTAL SR	06-jun-06 11:45	450 ml	19-jun-06 16:15		0	47.58	20-jun-06 06:28	Y2A	292	400	280	400	.349	.999	LCB
WG-TMI-E1-2-060606-MMM-036																	
Activity: 1.81E-01 Error: 7.22E-01 MDC: 1.18E+00 *																	
L28895-6		TOTAL SR	06-jun-06 13:00	450 ml	19-jun-06 16:15		0	53.23	20-jun-06 06:28	Y2B	303	400	315	400	.356	.999	LCB
WS-TMI-SWA3-2-060606-MMM-041																	
Activity: -1.59E-01 Error: 6.57E-01 MDC: 1.09E+00 *																	
L28895-7		TOTAL SR	08-jun-06 14:35	450 ml	19-jun-06 16:15		0	71.51	20-jun-06 06:28	Y2C	311	400	268	400	.35	.999	LCB
WG-TMI-13S-060806-JC-059																	
Activity: 4.3E-01 Error: 4.82E-01 MDC: 7.63E-01 *																	
L28895-8		TOTAL SR	02-jun-06 14:00	450 ml	19-jun-06 16:15		0	90.32	20-jun-06 06:29	Y3A	329	400	291	400	.347	.999	LCB
RB-TMI-RB3-060206-JAS-029																	
Activity: 3.04E-01 Error: 3.98E-01 MDC: 6.35E-01 *																	
L28895-9		TOTAL SR	08-jun-06 10:45	450 ml	19-jun-06 16:15		0	62.90	20-jun-06 06:29	Y3B	290	400	292	400	.346	.999	LCB
WG-TMI-MW-13I-060806-MMM-056																	
Activity: -2.3E-02 Error: 5.55E-01 MDC: 9.16E-01 *																	
L28895-10		TOTAL SR	08-jun-06 09:35	450 ml	19-jun-06 16:15		0	93.55	20-jun-06 06:29	Y3D	290	400	262	400	.352	.999	LCB
WG-TMI-5D-060806-EV-054																	
Activity: 2.13E-01 Error: 3.58E-01 MDC: 5.74E-01 *																	
L28895-11		TOTAL SR	08-jun-06 11:45	450 ml	19-jun-06 16:15		0	63.71	20-jun-06 06:26	X2A	334	400	264	400	.354	.999	LCB
WG-TMI-3I-060806-JC-058																	
Activity: 7.77E-01 Error: 5.43E-01 MDC: 8.4E-01 *																	
L28895-12		TOTAL SR	08-jun-06 10:05	450 ml	19-jun-06 16:15		0	48.92	20-jun-06 06:26	X2B	322	400	289	400	.345	.999	LCB
WG-TMI-7S-060806-JC-057																	
Activity: 4.9E-01 Error: 7.34E-01 MDC: 1.18E+00 *																	

Raw Data Sheet (rawdata)
Jun 23 2006, 04:09 pm

Work Order: *L28895* 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
L28895-13		TOTAL SR	08-jun-06 10:00	450 ml	19-jun-06 16:15		0	59.14	20-jun-06 06:26	X2C	333	400	277	400	.344	.999	LCB

WG-TMI-4S-060806-EV-055
Activity: 6.89E-01 Error: 6.08E-01 MDC: 9.55E-01 *

Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 11:57:26.74
TBE13 P-10727B HpGe ********** Aquisition Date/Time: 15-JUN-2006 09:19:45.77

LIMS No., Customer Name, Client ID: WG L28895-1 TMI

Sample ID : 13L28895-1
Sample Type : WG
Quantity : 3.04520E+00 L
Start Channel : 25 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 5-JUN-2006 16:30:00.0
Geometry : 133L082404
BKGFILE : 13BG060306MT
Real Time : 0 02:37:25.98
Live time : 0 02:37:23.31

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	63.44*	42	228	0.99	126.85	7.13E-01	4.42E-03	68.1	1.16E+00
2	1	66.42	74	220	1.00	132.82	8.32E-01	7.88E-03	34.5	
3	1	92.78*	7	351	1.04	185.53	1.74E+00	7.18E-04	566.7	2.38E+00
4	1	139.85*	74	268	1.42	279.67	2.27E+00	7.87E-03	41.8	2.14E+00
5	1	185.91*	51	297	1.20	371.80	2.18E+00	5.39E-03	75.0	2.60E+00
6	1	198.50*	74	276	1.26	396.98	2.12E+00	7.84E-03	45.6	1.18E+00
7	1	238.28*	26	176	1.15	476.54	1.94E+00	2.77E-03	101.1	2.63E+00
8	1	295.39*	26	180	1.50	590.78	1.70E+00	2.70E-03	105.3	1.75E+00
9	1	351.80*	50	154	1.46	703.62	1.51E+00	5.33E-03	53.5	8.99E-01
10	1	582.82*	40	51	2.61	1165.78	1.04E+00	4.22E-03	45.8	1.56E+00
11	1	609.10*	114	66	1.49	1218.36	1.01E+00	1.21E-02	19.4	1.13E+00
12	1	787.50	28	32	2.13	1575.31	8.25E-01	3.00E-03	40.3	9.46E+00
13	1	911.82*	31	28	3.49	1824.08	7.36E-01	3.27E-03	46.8	1.45E+00
14	1	1461.45*	27	25	1.93	2924.20	5.14E-01	2.83E-03	63.7	7.63E-01
15	1	1765.51*	10	14	3.31	3532.97	4.55E-01	1.11E-03	104.0	7.32E-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	27	10.67*	5.142E-01	4.585E+01	4.585E+01	127.42
RA-226	186.21	51	3.28*	2.178E+00	6.694E+01	6.694E+01	150.10
AC-228	835.50	------	1.75	7.877E-01	------	Line Not Found	------
	911.07	31	27.70*	7.356E-01	1.425E+01	1.429E+01	93.62
TH-228	238.63	26	44.60*	1.940E+00	2.844E+00	2.872E+00	202.28
	240.98	------	3.95	1.927E+00	------	Line Not Found	------
TH-232	583.14	40	30.25	1.040E+00	1.191E+01	1.191E+01	91.55
	911.07	31	27.70*	7.356E-01	1.425E+01	1.425E+01	93.62
	969.11	------	16.60	7.014E-01	------	Line Not Found	------
U-235	143.76	------	10.50*	2.278E+00	------	Line Not Found	------
	163.35	------	4.70	2.256E+00	------	Line Not Found	------
	185.71	51	54.00	2.178E+00	4.066E+00	4.066E+00	150.10
	205.31	------	4.70	2.093E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 13L28895-1

Acquisition date : 15-JUN-2006 09:19:45

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	4.585E+01	4.585E+01	5.842E+01	127.42	
RA-226	1600.00Y	1.00	6.694E+01	6.694E+01	10.05E+01	150.10	
AC-228	5.75Y	1.00	1.425E+01	1.429E+01	1.338E+01	93.62	
TH-228	1.91Y	1.01	2.844E+00	2.872E+00	5.809E+00	202.28	
TH-232	1.41E+10Y	1.00	1.425E+01	1.425E+01	1.334E+01	93.62	
U-235	7.04E+08Y	1.00	4.066E+00	4.066E+00	6.103E+00	150.10	K
			---	---			
	Total Activity :		1.482E+02	1.483E+02			

Grand Total Activity : 1.482E+02 1.483E+02

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

Unidentified Energy Lines
Sample ID : 13L28895-1 Acquisition date : 15-JUN-2006 09:19:45

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	63.44	42	228	0.99	126.85	120	17	4.42E-03	****	7.13E-01	
1	66.42	74	220	1.00	132.82	120	17	7.88E-03	68.9	8.32E-01	
1	92.78	7	351	1.04	185.53	181	9	7.18E-04	****	1.74E+00	
1	139.85	74	268	1.42	279.67	276	8	7.87E-03	83.6	2.27E+00	
1	198.50	74	276	1.26	396.98	392	10	7.84E-03	91.3	2.12E+00	
1	295.39	26	180	1.50	590.78	585	10	2.70E-03	****	1.70E+00	
1	351.80	50	154	1.46	703.62	697	11	5.33E-03	****	1.51E+00	
1	609.10	114	66	1.49	1218.36	1213	13	1.21E-02	38.8	1.01E+00	
1	787.50	28	32	2.13	1575.31	1571	9	3.00E-03	80.5	8.25E-01	
1	1765.51	10	14	3.31	3532.97	3525	16	1.11E-03	****	4.55E-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	4.585E+01	4.585E+01	5.842E+01	127.42	
RA-226	1600.00Y	1.00	6.694E+01	6.694E+01	10.05E+01	150.10	
AC-228	5.75Y	1.00	2.342E+00	2.350E+00	17.28E+00	735.44	
TH-228	1.91Y	1.01	2.844E+00	2.872E+00	5.809E+00	202.28	
TH-232	1.41E+10Y	1.00	1.191E+01	1.191E+01	1.090E+01	91.55	
		Total Activity :	1.299E+02	1.299E+02			

Grand Total Activity : 1.299E+02 1.299E+02

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	4.585E+01	5.842E+01	4.732E+01	0.000E+00	0.969
RA-226	6.694E+01	1.005E+02	1.160E+02	0.000E+00	0.577

AC-228	2.350E+00	1.728E+01	2.002E+01	0.000E+00	0.117
TH-228	2.872E+00	5.809E+00	9.196E+00	0.000E+00	0.312
TH-232	1.191E+01	1.090E+01	2.229E+01	0.000E+00	0.534

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.581E+01		3.041E+01	5.075E+01	0.000E+00	0.312
NA-24	-9.268E-02		9.253E-02	Half-Life too short		
CR-51	-3.917E+01		3.421E+01	5.415E+01	0.000E+00	-0.723
MN-54	-5.511E-01		3.293E+00	5.341E+00	0.000E+00	-0.103
CO-57	-1.122E+00		3.049E+00	4.933E+00	0.000E+00	-0.227
CO-58	6.691E-01		3.590E+00	5.988E+00	0.000E+00	0.112
FE-59	5.145E+00		7.012E+00	1.224E+01	0.000E+00	0.420
CO-60	4.906E+00		3.264E+00	6.174E+00	0.000E+00	0.795
ZN-65	1.021E+01		7.426E+00	1.350E+01	0.000E+00	0.756
SE-75	1.625E+00		4.358E+00	7.219E+00	0.000E+00	0.225
SR-85	2.042E+01		4.282E+00	8.391E+00	0.000E+00	2.433
Y-88	-2.199E-02		4.079E+00	6.686E+00	0.000E+00	-0.003
NB-94	2.009E+00		3.305E+00	5.699E+00	0.000E+00	0.352
NB-95	1.351E+00		3.460E+00	5.877E+00	0.000E+00	0.230
ZR-95	-1.046E+00		6.075E+00	9.932E+00	0.000E+00	-0.105
MO-99	-2.031E+02		2.866E+02	4.521E+02	0.000E+00	-0.449
RU-103	1.003E+00		3.736E+00	6.307E+00	0.000E+00	0.159
RU-106	4.515E+00		3.049E+01	5.038E+01	0.000E+00	0.090
AG-110m	-2.629E+00		3.269E+00	5.026E+00	0.000E+00	-0.523
SN-113	2.461E-01		4.439E+00	7.313E+00	0.000E+00	0.034
SB-124	-7.697E+00		4.564E+00	5.351E+00	0.000E+00	-1.438
SB-125	-4.159E+00		9.530E+00	1.520E+01	0.000E+00	-0.274
TE-129M	-1.929E+01		4.594E+01	7.291E+01	0.000E+00	-0.265
I-131	-3.004E+00		7.497E+00	1.214E+01	0.000E+00	-0.247
BA-133	3.128E+00		5.119E+00	7.502E+00	0.000E+00	0.417
CS-134	2.115E+00		4.502E+00	6.460E+00	0.000E+00	0.327
CS-136	-1.741E+00		5.404E+00	8.680E+00	0.000E+00	-0.201
CS-137	-8.838E-01		3.604E+00	5.656E+00	0.000E+00	-0.156
CE-139	-2.810E+00		3.223E+00	5.027E+00	0.000E+00	-0.559
BA-140	-4.214E+00		1.825E+01	2.977E+01	0.000E+00	-0.142
LA-140	1.217E+00		6.169E+00	1.027E+01	0.000E+00	0.118
CE-141	6.169E+00		7.373E+00	1.067E+01	0.000E+00	0.578
CE-144	-7.764E+00		2.733E+01	3.930E+01	0.000E+00	-0.198
EU-152	-7.899E+00		1.186E+01	1.596E+01	0.000E+00	-0.495
EU-154	-2.761E+00		6.331E+00	1.022E+01	0.000E+00	-0.270
U-235	-1.310E+01		2.877E+01	3.905E+01	0.000E+00	-0.335
U-238	-2.320E+02		3.937E+02	6.112E+02	0.000E+00	-0.380
AM-241	3.690E+01		3.000E+01	4.460E+01	0.000E+00	0.827

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A,13L28895-1        ,06/15/2006 11:57,06/05/2006 16:30,   3.045E+00,WG L28895-1 TM
B,13L28895-1        ,LIBD                ,06/13/2006 09:43,133L082404
C,K-40     ,YES,   4.585E+01,   5.842E+01,   4.732E+01,,    0.969
C,RA-226   ,YES,   6.694E+01,   1.005E+02,   1.160E+02,,    0.577
C,AC-228   ,YES,   2.350E+00,   1.728E+01,   2.002E+01,,    0.117
C,TH-228   ,YES,   2.872E+00,   5.809E+00,   9.196E+00,,    0.312
C,TH-232   ,YES,   1.191E+01,   1.090E+01,   2.229E+01,,    0.534
C,BE-7     ,NO ,   1.581E+01,   3.041E+01,   5.075E+01,,    0.312
C,CR-51    ,NO ,  -3.917E+01,   3.421E+01,   5.415E+01,,   -0.723
C,MN-54    ,NO ,  -5.511E-01,   3.293E+00,   5.341E+00,,   -0.103
C,CO-57    ,NO ,  -1.122E+00,   3.049E+00,   4.933E+00,,   -0.227
C,CO-58    ,NO ,   6.691E-01,   3.590E+00,   5.988E+00,,    0.112
C,FE-59    ,NO ,   5.145E+00,   7.012E+00,   1.224E+01,,    0.420
C,CO-60    ,NO ,   4.906E+00,   3.264E+00,   6.174E+00,,    0.795
C,ZN-65    ,NO ,   1.021E+01,   7.426E+00,   1.350E+01,,    0.756
C,SE-75    ,NO ,   1.625E+00,   4.358E+00,   7.219E+00,,    0.225
C,SR-85    ,NO ,   2.042E+01,   4.282E+00,   8.391E+00,,    2.433
C,Y-88     ,NO ,  -2.199E-02,   4.079E+00,   6.686E+00,,   -0.003
C,NB-94    ,NO ,   2.009E+00,   3.305E+00,   5.699E+00,,    0.352
C,NB-95    ,NO ,   1.351E+00,   3.460E+00,   5.877E+00,,    0.230
C,ZR-95    ,NO ,  -1.046E+00,   6.075E+00,   9.932E+00,,   -0.105
C,MO-99    ,NO ,  -2.031E+02,   2.866E+02,   4.521E+02,,   -0.449
C,RU-103   ,NO ,   1.003E+00,   3.736E+00,   6.307E+00,,    0.159
C,RU-106   ,NO ,   4.515E+00,   3.049E+01,   5.038E+01,,    0.090
C,AG-110m  ,NO ,  -2.629E+00,   3.269E+00,   5.026E+00,,   -0.523
C,SN-113   ,NO ,   2.461E-01,   4.439E+00,   7.313E+00,,    0.034
C,SB-124   ,NO ,  -7.697E+00,   4.564E+00,   5.351E+00,,   -1.438
C,SB-125   ,NO ,  -4.159E+00,   9.530E+00,   1.520E+01,,   -0.274
C,TE-129M  ,NO ,  -1.929E+01,   4.594E+01,   7.291E+01,,   -0.265
C,I-131    ,NO ,  -3.004E+00,   7.497E+00,   1.214E+01,,   -0.247
C,BA-133   ,NO ,   3.128E+00,   5.119E+00,   7.502E+00,,    0.417
C,CS-134   ,NO ,   2.115E+00,   4.502E+00,   6.460E+00,,    0.327
C,CS-136   ,NO ,  -1.741E+00,   5.404E+00,   8.680E+00,,   -0.201
C,CS-137   ,NO ,  -8.838E-01,   3.604E+00,   5.656E+00,,   -0.156
C,CE-139   ,NO ,  -2.810E+00,   3.223E+00,   5.027E+00,,   -0.559
C,BA-140   ,NO ,  -4.214E+00,   1.825E+01,   2.977E+01,,   -0.142
C,LA-140   ,NO ,   1.217E+00,   6.169E+00,   1.027E+01,,    0.118
C,CE-141   ,NO ,   6.169E+00,   7.373E+00,   1.067E+01,,    0.578
C,CE-144   ,NO ,  -7.764E+00,   2.733E+01,   3.930E+01,,   -0.198
C,EU-152   ,NO ,  -7.899E+00,   1.186E+01,   1.596E+01,,   -0.495
C,EU-154   ,NO ,  -2.761E+00,   6.331E+00,   1.022E+01,,   -0.270
C,U-235    ,NO ,  -1.310E+01,   2.877E+01,   3.905E+01,,   -0.335
C,U-238    ,NO ,  -2.320E+02,   3.937E+02,   6.112E+02,,   -0.380
C,AM-241   ,NO ,   3.690E+01,   3.000E+01,   4.460E+01,,    0.827
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 13:49:56.55
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 15-JUN-2006 09:19:39.24

LIMS No., Customer Name, Client ID: WG L28895-2 TMI

Sample ID : 11L28895-2
Sample Type : WG
Quantity : 3.12100E+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: 5-JUN-2006 14:45:00.0
Geometry : 113L082304
BKGFILE : 11BG060306MT
Real Time : 0 04:30:12.09
Live time : 0 04:30:06.29

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	66.52	124	1024	1.33	132.04	6.94E-01	7.63E-03	47.5	
2	0	139.39*	82	511	1.17	278.21	1.90E+00	5.08E-03	55.3	
3	0	198.35	154	391	1.46	396.45	1.75E+00	9.50E-03	25.3	
4	0	238.15*	39	540	1.26	476.25	1.58E+00	2.40E-03	132.6	
5	0	295.17*	47	203	1.09	590.56	1.37E+00	2.88E-03	60.3	
6	0	352.00*	85	193	1.39	704.47	1.20E+00	5.24E-03	36.4	
7	0	582.55*	13	131	0.85	1166.30	8.18E-01	8.28E-04	201.6	
8	0	596.93	39	164	3.31	1195.09	8.02E-01	2.43E-03	74.4	
9	0	609.06*	142	94	1.37	1219.37	7.90E-01	8.77E-03	18.1	
10	0	1460.34*	70	29	2.24	2921.19	3.92E-01	4.33E-03	26.7	
11	0	1761.84	64	20	2.46	3522.67	3.39E-01	3.97E-03	21.2	

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	70	10.67*	3.920E-01	8.973E+01	8.973E+01	53.39
TH-228	238.63	39	44.60*	1.579E+00	2.950E+00	2.979E+00	265.24
	240.98	------	3.95	1.567E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 11L28895-2

Acquisition date : 15-JUN-2006 09:19:39

Total number of lines in spectrum	11	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	3	27.27%

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	8.973E+01	8.973E+01	4.790E+01	53.39	
TH-228	1.91Y	1.01	2.950E+00	2.979E+00	7.903E+00	265.24	
			---	---			
	Total Activity :		9.268E+01	9.271E+01			

Grand Total Activity : 9.268E+01 9.271E+01

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

Unidentified Energy Lines
Sample ID : 11L28895-2

Acquisition date : 15-JUN-2006 09:19:39

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	66.52	124	1024	1.33	132.04	127	9	7.63E-03	95.0	6.94E-01	
0	139.39	82	511	1.17	278.21	274	10	5.08E-03	****	1.90E+00	
0	198.35	154	391	1.46	396.45	392	10	9.50E-03	50.6	1.75E+00	
0	295.17	47	203	1.09	590.56	587	8	2.88E-03	****	1.37E+00	
0	352.00	85	193	1.39	704.47	699	10	5.24E-03	72.9	1.20E+00	
0	582.55	13	131	0.85	1166.30	1160	13	8.28E-04	****	8.18E-01	T
0	596.93	39	164	3.31	1195.09	1187	16	2.43E-03	****	8.02E-01	
0	609.06	142	94	1.37	1219.37	1213	13	8.77E-03	36.1	7.90E-01	
0	1761.84	64	20	2.46	3522.67	3515	18	3.97E-03	42.4	3.39E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	11	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	3	27.27%

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	8.973E+01	8.973E+01	4.790E+01	53.39	
TH-228	1.91Y	1.01	2.950E+00	2.979E+00	7.903E+00	265.24	
			---	---			
	Total Activity :		9.268E+01	9.271E+01			

Grand Total Activity : 9.268E+01 9.271E+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	8.973E+01	4.790E+01	4.973E+01	0.000E+00	1.804
TH-228	2.979E+00	7.903E+00	8.607E+00	0.000E+00	0.346

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

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

BE-7	1.488E+01	2.754E+01	4.603E+01	0.000E+00	0.323
NA-24	-2.670E-02	8.705E-02	Half-Life too short		
CR-51	-2.659E+01	3.205E+01	5.157E+01	0.000E+00	-0.516
MN-54	2.013E+00	2.769E+00	4.743E+00	0.000E+00	0.424
CO-57	1.561E-01	2.932E+00	4.840E+00	0.000E+00	0.032
CO-58	-3.861E+00	3.129E+00	4.732E+00	0.000E+00	-0.816
FE-59	6.245E+00	6.593E+00	1.158E+01	0.000E+00	0.539
CO-60	2.056E+00	2.734E+00	4.789E+00	0.000E+00	0.429
ZN-65	3.532E+00	6.262E+00	1.076E+01	0.000E+00	0.328
SE-75	-1.360E+00	4.146E+00	6.831E+00	0.000E+00	-0.199
SR-85	1.871E+01	3.692E+00	7.056E+00	0.000E+00	2.652
Y-88	-4.983E-01	3.123E+00	5.052E+00	0.000E+00	-0.099
NB-94	2.395E+00	2.728E+00	4.713E+00	0.000E+00	0.508
NB-95	2.746E+00	3.013E+00	5.216E+00	0.000E+00	0.526
ZR-95	-1.314E-02	5.237E+00	8.612E+00	0.000E+00	-0.002
MO-99	1.483E+02	2.491E+02	4.243E+02	0.000E+00	0.349
RU-103	1.164E+00	3.550E+00	5.869E+00	0.000E+00	0.198
RU-106	-3.538E+00	2.773E+01	4.510E+01	0.000E+00	-0.078
AG-110m	-4.078E-01	2.592E+00	4.249E+00	0.000E+00	-0.096
SN-113	8.267E-01	3.921E+00	6.498E+00	0.000E+00	0.127
SB-124	1.452E+00	7.139E+00	5.306E+00	0.000E+00	0.274
SB-125	3.654E+00	8.274E+00	1.381E+01	0.000E+00	0.265
TE-129M	1.936E+01	4.036E+01	6.733E+01	0.000E+00	0.288
I-131	-4.223E-01	6.929E+00	1.139E+01	0.000E+00	-0.037
BA-133	7.784E+00	4.812E+00	7.287E+00	0.000E+00	1.068
CS-134	8.140E+00	6.613E+00	5.776E+00	0.000E+00	1.409
CS-136	3.390E+00	4.568E+00	7.833E+00	0.000E+00	0.433
CS-137	1.146E+00	2.866E+00	4.848E+00	0.000E+00	0.236
CE-139	1.228E-03	3.075E+00	5.033E+00	0.000E+00	0.000
BA-140	-2.748E+00	1.720E+01	2.771E+01	0.000E+00	-0.099
LA-140	-2.852E+00	4.938E+00	7.698E+00	0.000E+00	-0.371
CE-141	-4.148E-01	6.976E+00	9.695E+00	0.000E+00	-0.043
CE-144	1.649E+01	2.655E+01	3.789E+01	0.000E+00	0.435
EU-152	-1.895E+01	1.154E+01	1.472E+01	0.000E+00	-1.288
EU-154	-3.009E-01	6.051E+00	9.962E+00	0.000E+00	-0.030
RA-226	-4.941E+01	7.826E+01	1.213E+02	0.000E+00	-0.407
AC-228	3.605E+00	1.243E+01	1.915E+01	0.000E+00	0.188
TH-232	3.593E+00	1.239E+01	1.909E+01	0.000E+00	0.188
U-235	1.216E+01	2.611E+01	3.700E+01	0.000E+00	0.329
U-238	-1.636E+02	3.009E+02	4.812E+02	0.000E+00	-0.340
AM-241	2.654E+01	4.389E+01	6.119E+01	0.000E+00	0.434

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A,11L28895-2        ,06/15/2006 13:49,06/05/2006 14:45,   3.121E+00,WG L28895-2 TM
B,11L28895-2        ,LIBD                ,06/07/2006 09:40,113L082304
C,K-40     ,YES,    8.973E+01,   4.790E+01,   4.973E+01,,    1.804
C,TH-228   ,YES,    2.979E+00,   7.903E+00,   8.607E+00,,    0.346
C,BE-7     ,NO ,    1.488E+01,   2.754E+01,   4.603E+01,,    0.323
C,CR-51    ,NO ,   -2.659E+01,   3.205E+01,   5.157E+01,,   -0.516
C,MN-54    ,NO ,    2.013E+00,   2.769E+00,   4.743E+00,,    0.424
C,CO-57    ,NO ,    1.561E-01,   2.932E+00,   4.840E+00,,    0.032
C,CO-58    ,NO ,   -3.861E+00,   3.129E+00,   4.732E+00,,   -0.816
C,FE-59    ,NO ,    6.245E+00,   6.593E+00,   1.158E+01,,    0.539
C,CO-60    ,NO ,    2.056E+00,   2.734E+00,   4.789E+00,,    0.429
C,ZN-65    ,NO ,    3.532E+00,   6.262E+00,   1.076E+01,,    0.328
C,SE-75    ,NO ,   -1.360E+00,   4.146E+00,   6.831E+00,,   -0.199
C,SR-85    ,NO ,    1.871E+01,   3.692E+00,   7.056E+00,,    2.652
C,Y-88     ,NO ,   -4.983E-01,   3.123E+00,   5.052E+00,,   -0.099
C,NB-94    ,NO ,    2.395E+00,   2.728E+00,   4.713E+00,,    0.508
C,NB-95    ,NO ,    2.746E+00,   3.013E+00,   5.216E+00,,    0.526
C,ZR-95    ,NO ,   -1.314E-02,   5.237E+00,   8.612E+00,,   -0.002
C,MO-99    ,NO ,    1.483E+02,   2.491E+02,   4.243E+02,,    0.349
C,RU-103   ,NO ,    1.164E+00,   3.550E+00,   5.869E+00,,    0.198
C,RU-106   ,NO ,   -3.538E+00,   2.773E+01,   4.510E+01,,   -0.078
C,AG-110m  ,NO ,   -4.078E-01,   2.592E+00,   4.249E+00,,   -0.096
C,SN-113   ,NO ,    8.267E-01,   3.921E+00,   6.498E+00,,    0.127
C,SB-124   ,NO ,    1.452E+00,   7.139E+00,   5.306E+00,,    0.274
C,SB-125   ,NO ,    3.654E+00,   8.274E+00,   1.381E+01,,    0.265
C,TE-129M  ,NO ,    1.936E+01,   4.036E+01,   6.733E+01,,    0.288
C,I-131    ,NO ,   -4.223E-01,   6.929E+00,   1.139E+01,,   -0.037
C,BA-133   ,NO ,    7.784E+00,   4.812E+00,   7.287E+00,,    1.068
C,CS-134   ,NO ,    8.140E+00,   6.613E+00,   5.776E+00,,    1.409
C,CS-136   ,NO ,    3.390E+00,   4.568E+00,   7.833E+00,,    0.433
C,CS-137   ,NO ,    1.146E+00,   2.866E+00,   4.848E+00,,    0.236
C,CE-139   ,NO ,    1.228E-03,   3.075E+00,   5.033E+00,,    0.000
C,BA-140   ,NO ,   -2.748E+00,   1.720E+01,   2.771E+01,,   -0.099
C,LA-140   ,NO ,   -2.852E+00,   4.938E+00,   7.698E+00,,   -0.371
C,CE-141   ,NO ,   -4.148E-01,   6.976E+00,   9.695E+00,,   -0.043
C,CE-144   ,NO ,    1.649E+01,   2.655E+01,   3.789E+01,,    0.435
C,EU-152   ,NO ,   -1.895E+01,   1.154E+01,   1.472E+01,,   -1.288
C,EU-154   ,NO ,   -3.009E-01,   6.051E+00,   9.962E+00,,   -0.030
C,RA-226   ,NO ,   -4.941E+01,   7.826E+01,   1.213E+02,,   -0.407
C,AC-228   ,NO ,    3.605E+00,   1.243E+01,   1.915E+01,,    0.188
C,TH-232   ,NO ,    3.593E+00,   1.239E+01,   1.909E+01,,    0.188
C,U-235    ,NO ,    1.216E+01,   2.611E+01,   3.700E+01,,    0.329
C,U-238    ,NO ,   -1.636E+02,   3.009E+02,   4.812E+02,,   -0.340
C,AM-241   ,NO ,    2.654E+01,   4.389E+01,   6.119E+01,,    0.434
```

Sec. Review: Analyst: LIMS:

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 13:55:33.35
TBE14 P-10933A HpGe ********** Aquisition Date/Time: 15-JUN-2006 09:19:46.84

LIMS No., Customer Name, Client ID: L28895-3 TMI

Sample ID : 14L28895-3
Sample Type : WG
Quantity : 3.05550E+00 L
Start Channel : 90 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 2-JUN-2006 13:05:00.0
Geometry : 143L082304
BKGFILE : 14BG060306MT
Real Time : 0 04:35:39.88
Live time : 0 04:35:37.19

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.39	93	541	1.27	133.92	5.13E-01	5.65E-03	44.2	1.60E+00
2	1	139.69	142	479	1.28	281.09	1.89E+00	8.56E-03	29.0	1.34E+00
3	1	198.73*	123	493	1.59	399.58	1.83E+00	7.42E-03	39.0	2.05E+00
4	1	238.98*	67	470	1.29	480.32	1.67E+00	4.04E-03	70.6	1.25E+00
5	1	352.19*	60	212	1.66	707.27	1.28E+00	3.65E-03	55.0	3.41E-01
6	1	596.18	59	103	1.69	1195.74	8.47E-01	3.55E-03	33.4	2.35E+00
7	1	609.44*	132	146	2.77	1222.27	8.33E-01	7.97E-03	27.0	2.18E+00
8	1	1120.58*	18	60	2.51	2242.48	5.30E-01	1.09E-03	110.4	7.59E-01
9	1	1461.23*	20	32	2.35	2920.16	4.36E-01	1.21E-03	98.1	8.33E-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	20	10.67*	4.362E-01	2.298E+01	2.298E+01	196.18
TH-228	238.63	67	44.60*	1.674E+00	4.782E+00	4.844E+00	141.15
	240.98	------	3.95	1.666E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 14L28895-3

Acquisition date : 15-JUN-2006 09:19:46

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	2.298E+01	2.298E+01	4.508E+01	196.18	
TH-228	1.91Y	1.01	4.782E+00	4.844E+00	6.838E+00	141.15	
			---	---			
	Total Activity :		2.776E+01	2.782E+01			

Grand Total Activity : 2.776E+01 2.782E+01

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

Unidentified Energy Lines
Sample ID : 14L28895-3

Acquisition date : 15-JUN-2006 09:19:46

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.39	93	541	1.27	133.92	131	8	5.65E-03	88.4	5.13E-01	
1	139.69	142	479	1.28	281.09	278	9	8.56E-03	57.9	1.89E+00	
1	198.73	123	493	1.59	399.58	392	12	7.42E-03	78.0	1.83E+00	
1	352.19	60	212	1.66	707.27	702	11	3.65E-03	****	1.28E+00	
1	596.18	59	103	1.69	1195.74	1191	9	3.55E-03	66.9	8.47E-01	
1	609.44	132	146	2.77	1222.27	1212	21	7.97E-03	54.1	8.33E-01	
1	1120.58	18	60	2.51	2242.48	2235	16	1.09E-03	****	5.30E-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	2.298E+01	2.298E+01	4.508E+01	196.18	
TH-228	1.91Y	1.01	4.782E+00	4.844E+00	6.838E+00	141.15	
			---	---			
	Total Activity :		2.776E+01	2.782E+01			

Grand Total Activity : 2.776E+01 2.782E+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	2.298E+01	4.508E+01	5.061E+01	0.000E+00	0.454
TH-228	4.844E+00	6.838E+00	9.387E+00	0.000E+00	0.516

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.539E+01		3.239E+01	5.383E+01	0.000E+00	0.286
NA-24	-3.530E+00		2.746E+00	Half-Life too short		

CR-51	-5.592E+00	3.702E+01	6.072E+01	0.000E+00	-0.092
MN-54	1.398E+00	3.313E+00	5.561E+00	0.000E+00	0.251
CO-57	1.991E+00	3.492E+00	5.780E+00	0.000E+00	0.344
CO-58	-2.531E-01	3.449E+00	5.652E+00	0.000E+00	-0.045
FE-59	2.317E+00	7.225E+00	1.200E+01	0.000E+00	0.193
CO-60	-2.546E+00	2.942E+00	4.521E+00	0.000E+00	-0.563
ZN-65	5.632E+00	8.080E+00	1.172E+01	0.000E+00	0.481
SE-75	-2.836E+00	4.616E+00	7.512E+00	0.000E+00	-0.378
SR-85	2.396E+01	4.146E+00	7.926E+00	0.000E+00	3.023
Y-88	-9.051E-01	3.427E+00	5.444E+00	0.000E+00	-0.166
NB-94	1.205E+00	3.214E+00	5.395E+00	0.000E+00	0.223
NB-95	1.810E-01	3.538E+00	5.844E+00	0.000E+00	0.031
ZR-95	-6.986E+00	6.250E+00	9.712E+00	0.000E+00	-0.719
MO-99	-1.944E+02	5.941E+02	9.636E+02	0.000E+00	-0.202
RU-103	-1.165E+00	4.061E+00	6.549E+00	0.000E+00	-0.178
RU-106	1.827E+01	3.566E+01	5.247E+01	0.000E+00	0.348
AG-110m	-1.582E+00	3.189E+00	5.157E+00	0.000E+00	-0.307
SN-113	-3.278E+00	4.363E+00	6.966E+00	0.000E+00	-0.471
SB-124	4.199E+00	8.617E+00	6.183E+00	0.000E+00	0.679
SB-125	8.046E+00	9.629E+00	1.622E+01	0.000E+00	0.496
TE-129M	5.907E+01	4.870E+01	8.307E+01	0.000E+00	0.711
I-131	3.045E+00	1.018E+01	1.629E+01	0.000E+00	0.187
BA-133	5.664E+00	5.460E+00	7.903E+00	0.000E+00	0.717
CS-134	1.059E+01	7.676E+00	6.266E+00	0.000E+00	1.690
CS-136	-1.248E+00	5.995E+00	9.749E+00	0.000E+00	-0.128
CS-137	-1.278E+00	3.423E+00	5.566E+00	0.000E+00	-0.230
CE-139	1.028E+00	3.394E+00	5.563E+00	0.000E+00	0.185
BA-140	1.331E+01	2.323E+01	3.872E+01	0.000E+00	0.344
LA-140	4.637E+00	6.698E+00	1.160E+01	0.000E+00	0.400
CE-141	6.710E+00	8.610E+00	1.211E+01	0.000E+00	0.554
CE-144	-4.651E+00	3.107E+01	4.246E+01	0.000E+00	-0.110
EU-152	-7.226E+00	1.225E+01	1.647E+01	0.000E+00	-0.439
EU-154	5.530E+00	7.082E+00	1.177E+01	0.000E+00	0.470
RA-226	4.043E+01	9.006E+01	1.371E+02	0.000E+00	0.295
AC-228	7.776E+00	1.156E+01	1.933E+01	0.000E+00	0.402
TH-232	7.743E+00	1.151E+01	1.925E+01	0.000E+00	0.402
U-235	6.223E+01	3.014E+01	4.408E+01	0.000E+00	1.412
U-238	4.968E+01	3.349E+02	5.522E+02	0.000E+00	0.090
AM-241	-2.380E+00	5.374E+01	7.463E+01	0.000E+00	-0.032

```
A,14L28895-3       ,06/15/2006 13:55,06/02/2006 13:05,   3.056E+00, L28895-3 TMI
B,14L28895-3       ,LIBD                ,06/14/2006 10:50,143L082304
C,K-40     ,YES,   2.298E+01,   4.508E+01,   5.061E+01,,    0.454
C,TH-228   ,YES,   4.844E+00,   6.838E+00,   9.387E+00,,    0.516
C,BE-7     ,NO ,   1.539E+01,   3.239E+01,   5.383E+01,,    0.286
C,CR-51    ,NO ,  -5.592E+00,   3.702E+01,   6.072E+01,,   -0.092
C,MN-54    ,NO ,   1.398E+00,   3.313E+00,   5.561E+00,,    0.251
C,CO-57    ,NO ,   1.991E+00,   3.492E+00,   5.780E+00,,    0.344
C,CO-58    ,NO ,  -2.531E-01,   3.449E+00,   5.652E+00,,   -0.045
C,FE-59    ,NO ,   2.317E+00,   7.225E+00,   1.200E+01,,    0.193
C,CO-60    ,NO ,  -2.546E+00,   2.942E+00,   4.521E+00,,   -0.563
C,ZN-65    ,NO ,   5.632E+00,   8.080E+00,   1.172E+01,,    0.481
C,SE-75    ,NO ,  -2.836E+00,   4.616E+00,   7.512E+00,,   -0.378
C,SR-85    ,NO ,   2.396E+01,   4.146E+00,   7.926E+00,,    3.023
C,Y-88     ,NO ,  -9.051E-01,   3.427E+00,   5.444E+00,,   -0.166
C,NB-94    ,NO ,   1.205E+00,   3.214E+00,   5.395E+00,,    0.223
C,NB-95    ,NO ,   1.810E-01,   3.538E+00,   5.844E+00,,    0.031
C,ZR-95    ,NO ,  -6.986E+00,   6.250E+00,   9.712E+00,,   -0.719
C,MO-99    ,NO ,  -1.944E+02,   5.941E+02,   9.636E+02,,   -0.202
C,RU-103   ,NO ,  -1.165E+00,   4.061E+00,   6.549E+00,,   -0.178
C,RU-106   ,NO ,   1.827E+01,   3.566E+01,   5.247E+01,,    0.348
C,AG-110m  ,NO ,  -1.582E+00,   3.189E+00,   5.157E+00,,   -0.307
C,SN-113   ,NO ,  -3.278E+00,   4.363E+00,   6.966E+00,,   -0.471
C,SB-124   ,NO ,   4.199E+00,   8.617E+00,   6.183E+00,,    0.679
C,SB-125   ,NO ,   8.046E+00,   9.629E+00,   1.622E+01,,    0.496
C,TE-129M  ,NO ,   5.907E+01,   4.870E+01,   8.307E+01,,    0.711
C,I-131    ,NO ,   3.045E+00,   1.018E+01,   1.629E+01,,    0.187
C,BA-133   ,NO ,   5.664E+00,   5.460E+00,   7.903E+00,,    0.717
C,CS-134   ,NO ,   1.059E+01,   7.676E+00,   6.266E+00,,    1.690
C,CS-136   ,NO ,  -1.248E+00,   5.995E+00,   9.749E+00,,   -0.128
C,CS-137   ,NO ,  -1.278E+00,   3.423E+00,   5.566E+00,,   -0.230
C,CE-139   ,NO ,   1.028E+00,   3.394E+00,   5.563E+00,,    0.185
C,BA-140   ,NO ,   1.331E+01,   2.323E+01,   3.872E+01,,    0.344
C,LA-140   ,NO ,   4.637E+00,   6.698E+00,   1.160E+01,,    0.400
C,CE-141   ,NO ,   6.710E+00,   8.610E+00,   1.211E+01,,    0.554
C,CE-144   ,NO ,  -4.651E+00,   3.107E+01,   4.246E+01,,   -0.110
C,EU-152   ,NO ,  -7.226E+00,   1.225E+01,   1.647E+01,,   -0.439
C,EU-154   ,NO ,   5.530E+00,   7.082E+00,   1.177E+01,,    0.470
C,RA-226   ,NO ,   4.043E+01,   9.006E+01,   1.371E+02,,    0.295
C,AC-228   ,NO ,   7.776E+00,   1.156E+01,   1.933E+01,,    0.402
C,TH-232   ,NO ,   7.743E+00,   1.151E+01,   1.925E+01,,    0.402
C,U-235    ,NO ,   6.223E+01,   3.014E+01,   4.408E+01,,    1.412
C,U-238    ,NO ,   4.968E+01,   3.349E+02,   5.522E+02,,    0.090
C,AM-241   ,NO ,  -2.380E+00,   5.374E+01,   7.463E+01,,   -0.032
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Sec. Review: Analyst: RW LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 16:50:37.56
TBE15 P-10635B HpGe ********** Aquisition Date/Time: 15-JUN-2006 10:16:11.02

LIMS No., Customer Name, Client ID: WG L28895-4

Sample ID : 15L28895-4
Sample Type : WG
Quantity : 3.10750E+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: 6-JUN-2006 12:30:00.0
Geometry : 153L082604
BKGFILE : 15BG060306MT
Real Time : 0 06:32:39.06
Live time : 0 06:32:36.46

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	139.76	157	614	1.07	267.67	1.66E+00	6.66E-03	28.4	8.79E-01
2	1	198.23	72	555	1.43	385.25	1.54E+00	3.06E-03	57.8	1.76E+00
3	1	238.54*	117	285	1.27	466.28	1.38E+00	4.98E-03	29.4	1.42E+00
4	1	241.81	159	428	1.56	472.85	1.37E+00	6.75E-03	25.0	
5	1	295.32	272	502	1.61	580.42	1.18E+00	1.15E-02	17.6	3.08E+00
6	1	351.92*	489	325	1.25	694.18	1.02E+00	2.07E-02	9.4	2.63E+00
7	1	596.66	34	204	0.90	1185.97	6.54E-01	1.45E-03	102.9	3.51E+00
8	1	609.03	484	189	1.63	1210.82	6.43E-01	2.05E-02	8.0	1.52E+00
9	1	1120.31	78	110	2.47	2237.55	3.97E-01	3.31E-03	34.1	9.26E-01
10	1	1461.09*	94	64	1.62	2921.39	3.23E-01	4.00E-03	23.5	1.66E+00
11	1	1765.41	111	7	2.71	3531.74	2.78E-01	4.71E-03	11.3	2.05E+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	94	10.67*	3.225E-01	1.010E+02	1.010E+02	46.94
TH-228	238.63	117	44.60*	1.378E+00	7.043E+00	7.106E+00	58.85
	240.98	159	3.95	1.365E+00	1.089E+02	1.099E+02	49.99

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 15L28895-4

Acquisition date : 15-JUN-2006 10:16:11

Total number of lines in spectrum	11	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	3	27.27%

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	1.010E+02	1.010E+02	0.474E+02	46.94	
TH-228	1.91Y	1.01	7.043E+00	7.106E+00	4.182E+00	58.85	
			---	---			
	Total Activity :		1.081E+02	1.081E+02			
	Grand Total Activity :		1.081E+02	1.081E+02			

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

Unidentified Energy Lines
Sample ID : 15L28895-4

Acquisition date : 15-JUN-2006 10:16:11

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	139.76	157	614	1.07	267.67	263	8	6.66E-03	56.8	1.66E+00	
1	198.23	72	555	1.43	385.25	382	8	3.06E-03	****	1.54E+00	
1	295.32	272	502	1.61	580.42	575	12	1.15E-02	35.3	1.18E+00	
1	351.92	489	325	1.25	694.18	688	13	2.07E-02	18.8	1.02E+00	
1	596.66	34	204	0.90	1185.97	1178	18	1.45E-03	****	6.54E-01	
1	609.03	484	189	1.63	1210.82	1203	17	2.05E-02	16.0	6.43E-01	
1	1120.31	78	110	2.47	2237.55	2231	18	3.31E-03	68.3	3.97E-01	
1	1765.41	111	7	2.71	3531.74	3523	15	4.71E-03	22.6	2.78E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	11	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	3	27.27%

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	1.010E+02	1.010E+02	0.474E+02	46.94	
TH-228	1.91Y	1.01	7.043E+00	7.106E+00	4.182E+00	58.85	
			---	---			
Total Activity :			1.081E+02	1.081E+02			

Grand Total Activity : 1.081E+02 1.081E+02

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	1.010E+02	4.742E+01	4.937E+01	0.000E+00	2.046
TH-228	7.106E+00	4.182E+00	8.571E+00	0.000E+00	0.829

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-3.457E+00		2.807E+01	4.583E+01	0.000E+00	-0.075

NA-24	-1.056E-01	3.822E-02	Half-Life too short		
CR-51	-1.950E+01	3.059E+01	4.920E+01	0.000E+00	-0.396
MN-54	2.228E-01	3.207E+00	5.308E+00	0.000E+00	0.042
CO-57	-2.826E+00	2.978E+00	4.593E+00	0.000E+00	-0.615
CO-58	-2.143E+00	3.284E+00	5.259E+00	0.000E+00	-0.407
FE-59	4.335E+00	6.774E+00	1.154E+01	0.000E+00	0.376
CO-60	3.845E-01	3.244E+00	5.401E+00	0.000E+00	0.071
ZN-65	1.309E+01	8.912E+00	1.360E+01	0.000E+00	0.962
SE-75	-3.793E+00	4.028E+00	6.517E+00	0.000E+00	-0.582
SR-85	2.091E+01	3.657E+00	6.951E+00	0.000E+00	3.008
Y-88	-3.203E+00	3.672E+00	5.566E+00	0.000E+00	-0.575
NB-94	4.047E-01	3.015E+00	4.957E+00	0.000E+00	0.082
NB-95	2.210E+00	3.310E+00	5.655E+00	0.000E+00	0.391
ZR-95	-2.017E+00	6.052E+00	9.683E+00	0.000E+00	-0.208
MO-99	5.496E+01	2.231E+02	3.676E+02	0.000E+00	0.150
RU-103	1.539E+00	3.487E+00	5.796E+00	0.000E+00	0.265
RU-106	8.389E+00	3.212E+01	5.009E+01	0.000E+00	0.167
AG-110m	-1.146E+00	3.068E+00	4.958E+00	0.000E+00	-0.231
SN-113	1.189E+00	3.989E+00	6.687E+00	0.000E+00	0.178
SB-124	7.405E+00	6.807E+00	5.545E+00	0.000E+00	1.336
SB-125	-2.145E-01	8.777E+00	1.449E+01	0.000E+00	-0.015
TE-129M	-3.370E+00	4.099E+01	6.719E+01	0.000E+00	-0.050
I-131	-2.727E+00	6.540E+00	1.048E+01	0.000E+00	-0.260
BA-133	2.389E+01	5.215E+00	8.471E+00	0.000E+00	2.820
CS-134	2.983E+01	6.647E+00	7.424E+00	0.000E+00	4.019
CS-136	3.966E-01	4.700E+00	7.797E+00	0.000E+00	0.051
CS-137	1.244E+00	3.317E+00	5.535E+00	0.000E+00	0.225
CE-139	7.133E-01	2.887E+00	4.786E+00	0.000E+00	0.149
BA-140	5.157E+00	1.762E+01	2.900E+01	0.000E+00	0.178
LA-140	5.605E+00	5.749E+00	1.016E+01	0.000E+00	0.552
CE-141	-1.176E+00	6.575E+00	9.239E+00	0.000E+00	-0.127
CE-144	-7.222E+00	2.496E+01	3.514E+01	0.000E+00	-0.205
EU-152	-1.961E+00	1.131E+01	1.543E+01	0.000E+00	-0.127
EU-154	-4.113E+00	6.118E+00	9.485E+00	0.000E+00	-0.434
RA-226	-4.292E+01	7.528E+01	1.163E+02	0.000E+00	-0.369
AC-228	7.259E+00	1.118E+01	1.893E+01	0.000E+00	0.384
TH-232	7.237E+00	1.115E+01	1.887E+01	0.000E+00	0.384
U-235	1.119E+01	2.508E+01	3.590E+01	0.000E+00	0.312
U-238	2.881E+02	3.514E+02	6.069E+02	0.000E+00	0.475
AM-241	-3.244E+01	3.246E+01	5.308E+01	0.000E+00	-0.611

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A,15L28895-4       ,06/15/2006 16:50,06/06/2006 12:30,   3.108E+00,WG L28895-4
B,15L28895-4       ,LIBD                  ,06/14/2006 10:45,153L082604
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C,BE-7     ,NO ,  -3.457E+00,   2.807E+01,   4.583E+01,,   -0.075
C,CR-51    ,NO ,  -1.950E+01,   3.059E+01,   4.920E+01,,   -0.396
C,MN-54    ,NO ,   2.228E-01,   3.207E+00,   5.308E+00,,    0.042
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C,CO-58    ,NO ,  -2.143E+00,   3.284E+00,   5.259E+00,,   -0.407
C,FE-59    ,NO ,   4.335E+00,   6.774E+00,   1.154E+01,,    0.376
C,CO-60    ,NO ,   3.845E-01,   3.244E+00,   5.401E+00,,    0.071
C,ZN-65    ,NO ,   1.309E+01,   8.912E+00,   1.360E+01,,    0.962
C,SE-75    ,NO ,  -3.793E+00,   4.028E+00,   6.517E+00,,   -0.582
C,SR-85    ,NO ,   2.091E+01,   3.657E+00,   6.951E+00,,    3.008
C,Y-88     ,NO ,  -3.203E+00,   3.672E+00,   5.566E+00,,   -0.575
C,NB-94    ,NO ,   4.047E-01,   3.015E+00,   4.957E+00,,    0.082
C,NB-95    ,NO ,   2.210E+00,   3.310E+00,   5.655E+00,,    0.391
C,ZR-95    ,NO ,  -2.017E+00,   6.052E+00,   9.683E+00,,   -0.208
C,MO-99    ,NO ,   5.496E+01,   2.231E+02,   3.676E+02,,    0.150
C,RU-103   ,NO ,   1.539E+00,   3.487E+00,   5.796E+00,,    0.265
C,RU-106   ,NO ,   8.389E+00,   3.212E+01,   5.009E+01,,    0.167
C,AG-110m  ,NO ,  -1.146E+00,   3.068E+00,   4.958E+00,,   -0.231
C,SN-113   ,NO ,   1.189E+00,   3.989E+00,   6.687E+00,,    0.178
C,SB-124   ,NO ,   7.405E+00,   6.807E+00,   5.545E+00,,    1.336
C,SB-125   ,NO ,  -2.145E-01,   8.777E+00,   1.449E+01,,   -0.015
C,TE-129M  ,NO ,  -3.370E+00,   4.099E+01,   6.719E+01,,   -0.050
C,I-131    ,NO ,  -2.727E+00,   6.540E+00,   1.048E+01,,   -0.260
C,BA-133   ,NO ,   2.389E+01,   5.215E+00,   8.471E+00,,    2.820
C,CS-134   ,NO ,   2.983E+01,   6.647E+00,   7.424E+00,,    4.019
C,CS-136   ,NO ,   3.966E-01,   4.700E+00,   7.797E+00,,    0.051
C,CS-137   ,NO ,   1.244E+00,   3.317E+00,   5.535E+00,,    0.225
C,CE-139   ,NO ,   7.133E-01,   2.887E+00,   4.786E+00,,    0.149
C,BA-140   ,NO ,   5.157E+00,   1.762E+01,   2.900E+01,,    0.178
C,LA-140   ,NO ,   5.605E+00,   5.749E+00,   1.016E+01,,    0.552
C,CE-141   ,NO ,  -1.176E+00,   6.575E+00,   9.239E+00,,   -0.127
C,CE-144   ,NO ,  -7.222E+00,   2.496E+01,   3.514E+01,,   -0.205
C,EU-152   ,NO ,  -1.961E+00,   1.131E+01,   1.543E+01,,   -0.127
C,EU-154   ,NO ,  -4.113E+00,   6.118E+00,   9.485E+00,,   -0.434
C,RA-226   ,NO ,  -4.292E+01,   7.528E+01,   1.163E+02,,   -0.369
C,AC-228   ,NO ,   7.259E+00,   1.118E+01,   1.893E+01,,    0.384
C,TH-232   ,NO ,   7.237E+00,   1.115E+01,   1.887E+01,,    0.384
C,U-235    ,NO ,   1.119E+01,   2.508E+01,   3.590E+01,,    0.312
C,U-238    ,NO ,   2.881E+02,   3.514E+02,   6.069E+02,,    0.475
C,AM-241   ,NO ,  -3.244E+01,   3.246E+01,   5.308E+01,,   -0.611
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Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 23:31:15.44
TBE23 03017322 HpGe ********** Aquisition Date/Time: 15-JUN-2006 09:36:05.88

LIMS No., Customer Name, Client ID: WG L28895-5 TMI

Sample ID : 23L28895-5
Sample Type : WG
Quantity : 3.07980E+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: 6-JUN-2006 11:45:00.0
Geometry : 233L082404
BKGFILE : 23BG060306MT
Real Time : 0 04:46:58.04
Live time : 0 04:46:46.03

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	8	33.56*	46	33	0.93	67.44	7.91E-02	2.67E-03	57.2	2.58E+00
2	8	34.77*	19	113	1.71	69.87	9.77E-02	1.10E-03	218.5	
3	8	36.63*	123	369	2.59	73.58	1.31E-01	7.12E-03	49.7	
4	8	39.72*	95	580	2.36	79.75	1.99E-01	5.55E-03	57.0	
5	6	74.75	356	634	0.99	149.76	1.46E+00	2.07E-02	12.5	4.99E-01
6	6	76.95	492	672	1.01	154.16	1.53E+00	2.86E-02	9.5	
7	0	185.47*	28	736	1.08	371.05	2.18E+00	1.64E-03	193.1	
8	0	199.09*	15	809	1.16	398.27	2.11E+00	8.79E-04	367.2	
9	4	238.24*	155	536	2.06	476.51	1.90E+00	9.00E-03	31.5	1.00E+00
10	4	241.73	415	383	1.22	483.50	1.88E+00	2.41E-02	9.3	
11	0	295.07*	846	481	1.14	590.11	1.64E+00	4.92E-02	6.4	
12	0	351.66*	1413	333	1.35	703.22	1.44E+00	8.21E-02	3.9	
13	0	609.02*	1260	203	1.52	1217.72	9.41E-01	7.32E-02	3.9	
14	0	664.79	54	107	0.87	1329.22	8.82E-01	3.12E-03	39.7	
15	0	768.09	144	111	1.42	1535.77	7.97E-01	8.37E-03	16.7	
16	0	933.82	61	114	1.44	1867.18	6.97E-01	3.57E-03	38.7	
17	0	1120.26*	236	93	2.05	2240.04	6.16E-01	1.37E-02	11.4	
18	0	1238.60	142	69	2.16	2476.73	5.74E-01	8.28E-03	16.5	
19	0	1377.88	83	37	1.48	2755.35	5.32E-01	4.85E-03	18.4	
20	0	1509.52	36	53	1.09	3018.71	4.97E-01	2.09E-03	45.9	
21	0	1729.74	82	35	1.18	3459.34	4.45E-01	4.77E-03	18.9	
22	0	1764.83*	214	45	1.75	3529.55	4.38E-01	1.24E-02	10.7	
23	0	1847.98	38	25	1.38	3695.94	4.20E-01	2.22E-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
RA-226	186.21	28	3.28*	2.175E+00	2.020E+01	2.020E+01	386.17
TH-228	238.63	155	44.60*	1.902E+00	9.316E+00	9.399E+00	62.94
	240.98	415	3.95	1.884E+00	2.841E+02	2.867E+02	18.51

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L28895-5

Acquisition date : 15-JUN-2006 09:36:05

Total number of lines in spectrum	23	
Number of unidentified lines	20	
Number of lines tentatively identified by NID	3	13.04%

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	2.020E+01	2.020E+01	7.799E+01	386.17	
TH-228	1.91Y	1.01	9.316E+00	9.399E+00	5.916E+00	62.94	
			---	---			
	Total Activity :		2.951E+01	2.959E+01			

Grand Total Activity : 2.951E+01 2.959E+01

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

Unidentified Energy Lines
Page : 3
Sample ID : 23L28895-5
Acquisition date : 15-JUN-2006 09:36:05

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
8	33.56	46	33	0.93	67.44	65	25	2.67E-03	****	7.91E-02	
8	34.77	19	113	1.71	69.87	65	25	1.10E-03	****	9.77E-02	
8	36.63	123	369	2.59	73.58	65	25	7.12E-03	99.3	1.31E-01	
8	39.72	95	580	2.36	79.75	65	25	5.55E-03	****	1.99E-01	
6	74.75	356	634	0.99	149.76	145	13	2.07E-02	24.9	1.46E+00	
6	76.95	492	672	1.01	154.16	145	13	2.86E-02	19.0	1.53E+00	
0	199.09	15	809	1.16	398.27	391	10	8.79E-04	****	2.11E+00	
0	295.07	846	481	1.14	590.11	584	12	4.92E-02	12.9	1.64E+00	
0	351.66	1413	333	1.35	703.22	699	12	8.21E-02	7.7	1.44E+00	
0	609.02	1260	203	1.52	1217.72	1211	15	7.32E-02	7.8	9.41E-01	
0	664.79	54	107	0.87	1329.22	1323	11	3.12E-03	79.5	8.82E-01	
0	768.09	144	111	1.42	1535.77	1529	12	8.37E-03	33.4	7.97E-01	
0	933.82	61	114	1.44	1867.18	1861	14	3.57E-03	77.4	6.97E-01	
0	1120.26	236	93	2.05	2240.04	2231	14	1.37E-02	22.8	6.16E-01	
0	1238.60	142	69	2.16	2476.73	2469	19	8.28E-03	32.9	5.74E-01	
0	1377.88	83	37	1.48	2755.35	2749	12	4.85E-03	36.9	5.32E-01	
0	1509.52	36	53	1.09	3018.71	3009	14	2.09E-03	91.9	4.97E-01	
0	1729.74	82	35	1.18	3459.34	3452	14	4.77E-03	37.7	4.45E-01	
0	1764.83	214	45	1.75	3529.55	3522	17	1.24E-02	21.4	4.38E-01	
0	1847.98	38	25	1.38	3695.94	3689	13	2.22E-03	63.7	4.20E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	23	
Number of unidentified lines	20	
Number of lines tentatively identified by NID	3	13.04%

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	2.020E+01	2.020E+01	7.799E+01	386.17	
TH-228	1.91Y	1.01	9.316E+00	9.399E+00	5.916E+00	62.94	
			---	---			
	Total Activity :		2.951E+01	2.959E+01			

Grand Total Activity : 2.951E+01 2.959E+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 ----

	Activity	Act error	MDA	MDA error	Act/MDA

Nuclide	(pCi/L)		(pCi/L)		
RA-226	2.020E+01	7.799E+01	1.222E+02	0.000E+00	0.165
TH-228	9.399E+00	5.916E+00	9.125E+00	0.000E+00	1.030

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-5.836E+00		2.707E+01	4.519E+01	0.000E+00	-0.129
NA-24	-8.674E-02		3.840E-02	Half-Life too short		
K-40	-2.300E+01		3.809E+01	7.283E+01	0.000E+00	-0.316
CR-51	-1.656E+01		3.023E+01	5.047E+01	0.000E+00	-0.328
MN-54	1.095E+00		2.813E+00	4.887E+00	0.000E+00	0.224
CO-57	1.037E+00		3.037E+00	5.116E+00	0.000E+00	0.203
CO-58	5.548E-01		3.015E+00	5.190E+00	0.000E+00	0.107
FE-59	5.218E-01		5.258E+00	9.215E+00	0.000E+00	0.057
CO-60	-9.291E-01		2.889E+00	4.893E+00	0.000E+00	-0.190
ZN-65	3.337E+01		8.157E+00	1.482E+01	0.000E+00	2.252
SE-75	-3.866E+00		4.106E+00	6.825E+00	0.000E+00	-0.566
SR-85	1.379E+01		3.263E+00	6.167E+00	0.000E+00	2.235
Y-88	-1.584E+00		3.523E+00	5.283E+00	0.000E+00	-0.300
NB-94	1.271E+00		2.615E+00	4.575E+00	0.000E+00	0.278
NB-95	7.836E+00		3.355E+00	6.227E+00	0.000E+00	1.258
ZR-95	-2.719E+00		5.490E+00	8.453E+00	0.000E+00	-0.322
MO-99	-2.217E+01		1.968E+02	3.353E+02	0.000E+00	-0.066
RU-103	-1.331E-01		3.219E+00	5.407E+00	0.000E+00	-0.025
RU-106	7.191E+00		2.692E+01	4.557E+01	0.000E+00	0.158
AG-110m	1.395E+00		3.055E+00	4.576E+00	0.000E+00	0.305
SN-113	2.159E+00		3.961E+00	6.798E+00	0.000E+00	0.318
SB-124	-5.025E+00		3.784E+00	5.067E+00	0.000E+00	-0.992
SB-125	-1.082E+00		8.589E+00	1.441E+01	0.000E+00	-0.075
TE-129M	-1.065E+01		3.920E+01	6.536E+01	0.000E+00	-0.163
I-131	-2.462E-01		6.426E+00	1.085E+01	0.000E+00	-0.023
BA-133	4.742E+01		5.742E+00	1.034E+01	0.000E+00	4.586
CS-134	5.465E+01		4.897E+00	9.591E+00	0.000E+00	5.698
CS-136	6.154E-02		4.432E+00	7.567E+00	0.000E+00	0.008
CS-137	1.789E+00		3.028E+00	5.323E+00	0.000E+00	0.336
CE-139	-1.892E+00		3.174E+00	5.223E+00	0.000E+00	-0.362
BA-140	2.236E+01		1.578E+01	2.804E+01	0.000E+00	0.797
LA-140	3.311E+00		5.135E+00	9.391E+00	0.000E+00	0.353
CE-141	-4.478E+00		6.291E+00	1.036E+01	0.000E+00	-0.432
CE-144	-2.795E+01		2.383E+01	3.903E+01	0.000E+00	-0.716
EU-152	-6.857E+00		1.085E+01	1.512E+01	0.000E+00	-0.454
EU-154	1.270E+00		6.313E+00	1.061E+01	0.000E+00	0.120
AC-228	1.108E+01		1.102E+01	1.837E+01	0.000E+00	0.603
TH-232	1.105E+01		1.098E+01	1.832E+01	0.000E+00	0.603
U-235	-2.016E+01		2.486E+01	3.959E+01	0.000E+00	-0.509
U-238	1.570E+02		3.235E+02	5.511E+02	0.000E+00	0.285
AM-241	-1.856E+01		1.778E+01	2.862E+01	0.000E+00	-0.648

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A,23L28895-5       ,06/15/2006 23:31,06/06/2006 11:45,   3.080E+00,WG L28895-5 TM
B,23L28895-5       ,LIBD                ,06/01/2006 10:14,233L082404
C,RA-226   ,YES,   2.020E+01,   7.799E+01,   1.222E+02,,    0.165
C,TH-228   ,YES,   9.399E+00,   5.916E+00,   9.125E+00,,    1.030
C,BE-7     ,NO ,  -5.836E+00,   2.707E+01,   4.519E+01,,   -0.129
C,K-40     ,NO ,  -2.300E+01,   3.809E+01,   7.283E+01,,   -0.316
C,CR-51    ,NO ,  -1.656E+01,   3.023E+01,   5.047E+01,,   -0.328
C,MN-54    ,NO ,   1.095E+00,   2.813E+00,   4.887E+00,,    0.224
C,CO-57    ,NO ,   1.037E+00,   3.037E+00,   5.116E+00,,    0.203
C,CO-58    ,NO ,   5.548E-01,   3.015E+00,   5.190E+00,,    0.107
C,FE-59    ,NO ,   5.218E-01,   5.258E+00,   9.215E+00,,    0.057
C,CO-60    ,NO ,  -9.291E-01,   2.889E+00,   4.893E+00,,   -0.190
C,ZN-65    ,NO ,   3.337E+01,   8.157E+00,   1.482E+01,,    2.252
C,SE-75    ,NO ,  -3.866E+00,   4.106E+00,   6.825E+00,,   -0.566
C,SR-85    ,NO ,   1.379E+01,   3.263E+00,   6.167E+00,,    2.235
C,Y-88     ,NO ,  -1.584E+00,   3.523E+00,   5.283E+00,,   -0.300
C,NB-94    ,NO ,   1.271E+00,   2.615E+00,   4.575E+00,,    0.278
C,NB-95    ,NO ,   7.836E+00,   3.355E+00,   6.227E+00,,    1.258
C,ZR-95    ,NO ,  -2.719E+00,   5.490E+00,   8.453E+00,,   -0.322
C,MO-99    ,NO ,  -2.217E+01,   1.968E+02,   3.353E+02,,   -0.066
C,RU-103   ,NO ,  -1.331E-01,   3.219E+00,   5.407E+00,,   -0.025
C,RU-106   ,NO ,   7.191E+00,   2.692E+01,   4.557E+01,,    0.158
C,AG-110m  ,NO ,   1.395E+00,   3.055E+00,   4.576E+00,,    0.305
C,SN-113   ,NO ,   2.159E+00,   3.961E+00,   6.798E+00,,    0.318
C,SB-124   ,NO ,  -5.025E+00,   3.784E+00,   5.067E+00,,   -0.992
C,SB-125   ,NO ,  -1.082E+00,   8.589E+00,   1.441E+01,,   -0.075
C,TE-129M  ,NO ,  -1.065E+01,   3.920E+01,   6.536E+01,,   -0.163
C,I-131    ,NO ,  -2.462E-01,   6.426E+00,   1.085E+01,,   -0.023
C,BA-133   ,NO ,   4.742E+01,   5.742E+00,   1.034E+01,,    4.586
C,CS-134   ,NO ,   5.465E+01,   4.897E+00,   9.591E+00,,    5.698
C,CS-136   ,NO ,   6.154E-02,   4.432E+00,   7.567E+00,,    0.008
C,CS-137   ,NO ,   1.789E+00,   3.028E+00,   5.323E+00,,    0.336
C,CE-139   ,NO ,  -1.892E+00,   3.174E+00,   5.223E+00,,   -0.362
C,BA-140   ,NO ,   2.236E+01,   1.578E+01,   2.804E+01,,    0.797
C,LA-140   ,NO ,   3.311E+00,   5.135E+00,   9.391E+00,,    0.353
C,CE-141   ,NO ,  -4.478E+00,   6.291E+00,   1.036E+01,,   -0.432
C,CE-144   ,NO ,  -2.795E+01,   2.383E+01,   3.903E+01,,   -0.716
C,EU-152   ,NO ,  -6.857E+00,   1.085E+01,   1.512E+01,,   -0.454
C,EU-154   ,NO ,   1.270E+00,   6.313E+00,   1.061E+01,,    0.120
C,AC-228   ,NO ,   1.108E+01,   1.102E+01,   1.837E+01,,    0.603
C,TH-232   ,NO ,   1.105E+01,   1.098E+01,   1.832E+01,,    0.603
C,U-235    ,NO ,  -2.016E+01,   2.486E+01,   3.959E+01,,   -0.509
C,U-238    ,NO ,   1.570E+02,   3.235E+02,   5.511E+02,,    0.285
C,AM-241   ,NO ,  -1.856E+01,   1.778E+01,   2.862E+01,,   -0.648
```

Sec. Review: Analyst: LIMS:

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 14:20:23.14
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 15-JUN-2006 11:55:45.62

LIMS No., Customer Name, Client ID: WGL28895-6 TMI

Sample ID : 07L28895-6
Sample Type : WG
Quantity : 3.21550E+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: 6-JUN-2006 13:00:00.0
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 02:24:32.70
Live time : 0 02:24:31.04

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.26*	67	217	1.51	133.10	8.03E-01	7.74E-03	40.7	1.84E+00
2	1	140.15*	66	257	0.93	280.99	2.36E+00	7.58E-03	49.6	3.03E+00
3	1	1765.00*	19	14	3.00	3530.59	5.12E-01	2.25E-03	52.7	1.06E+00

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

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28895-6

Acquisition date : 15-JUN-2006 11:55:45

Total number of lines in spectrum	3	
Number of unidentified lines	3	
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 : 07L28895-6 Acquisition date : 15-JUN-2006 11:55:45

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.26	67	217	1.51	133.10	130	7	7.74E-03	81.5	8.03E-01	
1	140.15	66	257	0.93	280.99	276	10	7.58E-03	99.2	2.36E+00	
1	1765.00	19	14	3.00	3530.59	3523	14	2.25E-03	****	5.12E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 3
Number of unidentified lines 3
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	-3.325E+00		2.684E+01	4.336E+01	0.000E+00	-0.077
NA-24	-6.685E-02		3.503E-02	Half-Life too short		
K-40	1.974E+01		4.260E+01	7.926E+01	0.000E+00	0.249
CR-51	-1.601E+01		2.987E+01	4.849E+01	0.000E+00	-0.330
MN-54	-2.333E+00		3.202E+00	5.015E+00	0.000E+00	-0.465
CO-57	-7.508E-01		2.888E+00	4.675E+00	0.000E+00	-0.161
CO-58	-1.705E-01		3.096E+00	5.103E+00	0.000E+00	-0.033
FE-59	4.332E+00		6.461E+00	1.128E+01	0.000E+00	0.384
CO-60	2.418E-01		2.985E+00	4.918E+00	0.000E+00	0.049
ZN-65	7.091E+00		6.553E+00	1.177E+01	0.000E+00	0.602
SE-75	-1.964E+00		4.103E+00	6.557E+00	0.000E+00	-0.299
SR-85	1.981E+01		3.901E+00	7.775E+00	0.000E+00	2.547
Y-88	-1.364E+00		3.612E+00	5.723E+00	0.000E+00	-0.238
NB-94	2.346E+00		3.044E+00	5.217E+00	0.000E+00	0.450
NB-95	1.037E-01		2.974E+00	4.956E+00	0.000E+00	0.021
ZR-95	-4.479E+00		5.688E+00	8.661E+00	0.000E+00	-0.517
MO-99	-1.057E+02		2.107E+02	3.291E+02	0.000E+00	-0.321
RU-103	8.857E-01		3.525E+00	5.811E+00	0.000E+00	0.152
RU-106	-9.128E+00		2.982E+01	4.810E+01	0.000E+00	-0.190
AG-110m	1.220E+00		3.141E+00	5.278E+00	0.000E+00	0.231
SN-113	3.354E+00		4.092E+00	7.017E+00	0.000E+00	0.478
SB-124	-1.046E+01		3.578E+00	4.845E+00	0.000E+00	-2.160
SB-125	8.036E+00		8.626E+00	1.485E+01	0.000E+00	0.541
TE-129M	2.502E+01		3.963E+01	6.705E+01	0.000E+00	0.373
I-131	-2.314E-01		6.361E+00	1.050E+01	0.000E+00	-0.022

BA-133	3.062E+00	4.260E+00	7.285E+00	0.000E+00	0.420
CS-134	-3.607E+00	3.250E+00	5.012E+00	0.000E+00	-0.720
CS-136	-5.887E+00	4.647E+00	6.925E+00	0.000E+00	-0.850
CS-137	5.132E+00	3.285E+00	5.931E+00	0.000E+00	0.865
CE-139	3.225E-01	2.833E+00	4.746E+00	0.000E+00	0.068
BA-140	2.283E+00	1.724E+01	2.884E+01	0.000E+00	0.079
LA-140	1.141E+00	5.662E+00	9.502E+00	0.000E+00	0.120
CE-141	3.157E+00	6.687E+00	9.465E+00	0.000E+00	0.334
CE-144	1.203E+01	2.635E+01	3.740E+01	0.000E+00	0.322
EU-152	-1.133E+01	1.015E+01	1.601E+01	0.000E+00	-0.708
EU-154	-5.324E+00	5.973E+00	9.438E+00	0.000E+00	-0.564
RA-226	-5.047E+01	7.145E+01	1.173E+02	0.000E+00	-0.430
AC-228	9.580E-01	1.279E+01	2.125E+01	0.000E+00	0.045
TH-228	4.367E+00	5.872E+00	1.006E+01	0.000E+00	0.434
TH-232	9.552E-01	1.275E+01	2.119E+01	0.000E+00	0.045
U-235	1.531E+01	2.620E+01	3.730E+01	0.000E+00	0.411
U-238	3.211E+02	3.229E+02	5.713E+02	0.000E+00	0.562
AM-241	-4.848E+01	3.098E+01	4.263E+01	0.000E+00	-1.137

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A,07L28895-6       ,06/15/2006 14:20,06/06/2006 13:00,   3.216E+00,WGL28895-6 TMI
B,07L28895-6       ,LIBD                ,06/07/2006 09:32,073L082504
C,BE-7     ,NO ,  -3.325E+00,   2.684E+01,   4.336E+01,,   -0.077
C,K-40     ,NO ,   1.974E+01,   4.260E+01,   7.926E+01,,    0.249
C,CR-51    ,NO ,  -1.601E+01,   2.987E+01,   4.849E+01,,   -0.330
C,MN-54    ,NO ,  -2.333E+00,   3.202E+00,   5.015E+00,,   -0.465
C,CO-57    ,NO ,  -7.508E-01,   2.888E+00,   4.675E+00,,   -0.161
C,CO-58    ,NO ,  -1.705E-01,   3.096E+00,   5.103E+00,,   -0.033
C,FE-59    ,NO ,   4.332E+00,   6.461E+00,   1.128E+01,,    0.384
C,CO-60    ,NO ,   2.418E-01,   2.985E+00,   4.918E+00,,    0.049
C,ZN-65    ,NO ,   7.091E+00,   6.553E+00,   1.177E+01,,    0.602
C,SE-75    ,NO ,  -1.964E+00,   4.103E+00,   6.557E+00,,   -0.299
C,SR-85    ,NO ,   1.981E+01,   3.901E+00,   7.775E+00,,    2.547
C,Y-88     ,NO ,  -1.364E+00,   3.612E+00,   5.723E+00,,   -0.238
C,NB-94    ,NO ,   2.346E+00,   3.044E+00,   5.217E+00,,    0.450
C,NB-95    ,NO ,   1.037E-01,   2.974E+00,   4.956E+00,,    0.021
C,ZR-95    ,NO ,  -4.479E+00,   5.688E+00,   8.661E+00,,   -0.517
C,MO-99    ,NO ,  -1.057E+02,   2.107E+02,   3.291E+02,,   -0.321
C,RU-103   ,NO ,   8.857E-01,   3.525E+00,   5.811E+00,,    0.152
C,RU-106   ,NO ,  -9.128E+00,   2.982E+01,   4.810E+01,,   -0.190
C,AG-110m  ,NO ,   1.220E+00,   3.141E+00,   5.278E+00,,    0.231
C,SN-113   ,NO ,   3.354E+00,   4.092E+00,   7.017E+00,,    0.478
C,SB-124   ,NO ,  -1.046E+01,   3.578E+00,   4.845E+00,,   -2.160
C,SB-125   ,NO ,   8.036E+00,   8.626E+00,   1.485E+01,,    0.541
C,TE-129M  ,NO ,   2.502E+01,   3.963E+01,   6.705E+01,,    0.373
C,I-131    ,NO ,  -2.314E-01,   6.361E+00,   1.050E+01,,   -0.022
C,BA-133   ,NO ,   3.062E+00,   4.260E+00,   7.285E+00,,    0.420
C,CS-134   ,NO ,  -3.607E+00,   3.250E+00,   5.012E+00,,   -0.720
C,CS-136   ,NO ,  -5.887E+00,   4.647E+00,   6.925E+00,,   -0.850
C,CS-137   ,NO ,   5.132E+00,   3.285E+00,   5.931E+00,,    0.865
C,CE-139   ,NO ,   3.225E-01,   2.833E+00,   4.746E+00,,    0.068
C,BA-140   ,NO ,   2.283E+00,   1.724E+01,   2.884E+01,,    0.079
C,LA-140   ,NO ,   1.141E+00,   5.662E+00,   9.502E+00,,    0.120
C,CE-141   ,NO ,   3.157E+00,   6.687E+00,   9.465E+00,,    0.334
C,CE-144   ,NO ,   1.203E+01,   2.635E+01,   3.740E+01,,    0.322
C,EU-152   ,NO ,  -1.133E+01,   1.015E+01,   1.601E+01,,   -0.708
C,EU-154   ,NO ,  -5.324E+00,   5.973E+00,   9.438E+00,,   -0.564
C,RA-226   ,NO ,  -5.047E+01,   7.145E+01,   1.173E+02,,   -0.430
C,AC-228   ,NO ,   9.580E-01,   1.279E+01,   2.125E+01,,    0.045
C,TH-228   ,NO ,   4.367E+00,   5.872E+00,   1.006E+01,,    0.434
C,TH-232   ,NO ,   9.552E-01,   1.275E+01,   2.119E+01,,    0.045
C,U-235    ,NO ,   1.531E+01,   2.620E+01,   3.730E+01,,    0.411
C,U-238    ,NO ,   3.211E+02,   3.229E+02,   5.713E+02,,    0.562
C,AM-241   ,NO ,  -4.848E+01,   3.098E+01,   4.263E+01,,   -1.137
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 14:39:33.17
TBE13 P-10727B HpGe ********** Aquisition Date/Time: 15-JUN-2006 11:58:22.99

LIMS No., Customer Name, Client ID: WG L28895-7 TMI

Sample ID : 13L28895-7
Sample Type : WG
Quantity : 3.04590E+00 L
Start Channel : 25 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 8-JUN-2006 14:35:00.0
Geometry : 133L082404
BKGFILE : 13BG060306MT
Real Time : 0 02:40:54.81
Live time : 0 02:40:52.06

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	92.81*	31	469	2.12	185.59	1.74E+00	3.22E-03	153.8	2.18E+00
2	1	139.98*	95	282	1.58	279.93	2.27E+00	9.84E-03	34.0	3.22E+00
3	1	198.25*	68	324	1.62	396.47	2.12E+00	7.06E-03	53.1	1.32E+00
4	1	238.34*	21	286	1.08	476.66	1.94E+00	2.18E-03	161.8	2.10E+00
5	1	241.75	86	175	1.56	483.47	1.92E+00	8.93E-03	28.0	8.60E-01
6	1	295.29*	145	256	1.12	590.57	1.70E+00	1.50E-02	24.4	2.93E+00
7	1	351.73*	209	156	1.56	703.48	1.51E+00	2.17E-02	14.6	3.61E+00
8	1	582.91*	23	91	2.46	1165.96	1.04E+00	2.37E-03	97.8	4.12E+00
9	1	596.91	41	72	1.53	1193.96	1.02E+00	4.27E-03	52.5	4.22E+00
10	1	609.08*	216	69	1.75	1218.31	1.01E+00	2.23E-02	11.3	1.18E+00
11	1	1120.45*	31	39	1.91	2241.61	6.26E-01	3.17E-03	49.9	2.43E+00
12	1	1461.04*	14	14	2.19	2923.38	5.14E-01	1.50E-03	98.0	2.10E+00
13	1	1765.12*	57	19	2.24	3532.18	4.55E-01	5.86E-03	25.8	7.63E-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	14	10.67*	5.143E-01	2.425E+01	2.425E+01	195.99
TH-228	238.63	21	44.60*	1.939E+00	2.241E+00	2.257E+00	323.53
	240.98	86	3.95	1.924E+00	1.043E+02	1.050E+02	56.01

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 13L28895-7

Acquisition date : 15-JUN-2006 11:58:22

Total number of lines in spectrum	13	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	4	30.77%

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	2.425E+01	2.425E+01	4.753E+01	195.99	
TH-228	1.91Y	1.01	2.241E+00	2.257E+00	7.301E+00	323.53	
			---	---			
	Total Activity :		2.649E+01	2.651E+01			

Grand Total Activity : 2.649E+01 2.651E+01

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

Unidentified Energy Lines
Sample ID : 13L28895-7 Acquisition date : 15-JUN-2006 11:58:22

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	92.81	31	469	2.12	185.59	179	12	3.22E-03	****	1.74E+00	
1	139.98	95	282	1.58	279.93	276	8	9.84E-03	67.9	2.27E+00	
1	198.25	68	324	1.62	396.47	392	10	7.06E-03	****	2.12E+00	
1	295.29	145	256	1.12	590.57	585	12	1.50E-02	48.7	1.70E+00	
1	351.73	209	156	1.56	703.48	699	11	2.17E-02	29.1	1.51E+00	
1	582.91	23	91	2.46	1165.96	1159	15	2.37E-03	****	1.04E+00	T
1	596.91	41	72	1.53	1193.96	1187	16	4.27E-03	****	1.02E+00	
1	609.08	216	69	1.75	1218.31	1213	13	2.23E-02	22.5	1.01E+00	
1	1120.45	31	39	1.91	2241.61	2235	12	3.17E-03	99.8	6.26E-01	
1	1765.12	57	19	2.24	3532.18	3524	20	5.86E-03	51.5	4.55E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	13	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	4	30.77%

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	2.425E+01	2.425E+01	4.753E+01	195.99	
TH-228	1.91Y	1.01	2.241E+00	2.257E+00	7.301E+00	323.53	
			---	---			
	Total Activity :		2.649E+01	2.651E+01			

Grand Total Activity : 2.649E+01 2.651E+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	2.425E+01	4.753E+01	5.907E+01	0.000E+00	0.411
TH-228	2.257E+00	7.301E+00	9.853E+00	0.000E+00	0.229

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

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

BE-7	-9.924E+00	3.054E+01	4.857E+01	0.000E+00	-0.204
NA-24	-1.125E+03	8.165E+03	1.330E+04	0.000E+00	-0.085
CR-51	1.254E+00	3.113E+01	5.192E+01	0.000E+00	0.024
MN-54	-3.224E+00	3.283E+00	4.994E+00	0.000E+00	-0.646
CO-57	1.032E+00	3.162E+00	5.236E+00	0.000E+00	0.197
CO-58	-3.716E+00	3.538E+00	5.387E+00	0.000E+00	-0.690
FE-59	-3.451E+00	6.830E+00	1.075E+01	0.000E+00	-0.321
CO-60	4.213E-01	3.498E+00	5.849E+00	0.000E+00	0.072
ZN-65	1.619E+01	9.360E+00	1.528E+01	0.000E+00	1.059
SE-75	-7.071E+00	4.671E+00	7.153E+00	0.000E+00	-0.989
SR-85	2.152E+01	4.114E+00	8.157E+00	0.000E+00	2.638
Y-88	-5.139E-01	3.762E+00	6.070E+00	0.000E+00	-0.085
NB-94	-4.331E-01	3.201E+00	5.284E+00	0.000E+00	-0.082
NB-95	3.375E+00	3.628E+00	6.343E+00	0.000E+00	0.532
ZR-95	-1.348E+00	5.914E+00	9.633E+00	0.000E+00	-0.140
MO-99	-1.179E-01	1.405E+02	2.329E+02	0.000E+00	-0.001
RU-103	-4.498E-01	3.649E+00	6.032E+00	0.000E+00	-0.075
RU-106	-6.380E+00	3.276E+01	5.299E+01	0.000E+00	-0.120
AG-110m	-1.942E-01	3.338E+00	5.419E+00	0.000E+00	-0.036
SN-113	2.772E+00	4.474E+00	7.563E+00	0.000E+00	0.366
SB-124	1.612E+00	6.965E+00	5.402E+00	0.000E+00	0.298
SB-125	-7.568E+00	9.807E+00	1.538E+01	0.000E+00	-0.492
TE-129M	-1.293E+01	4.229E+01	6.755E+01	0.000E+00	-0.191
I-131	2.947E+00	5.968E+00	1.008E+01	0.000E+00	0.292
BA-133	5.889E+00	5.763E+00	8.596E+00	0.000E+00	0.685
CS-134	1.483E+01	6.885E+00	7.245E+00	0.000E+00	2.047
CS-136	1.380E-01	4.604E+00	7.590E+00	0.000E+00	0.018
CS-137	-2.853E+00	3.651E+00	5.514E+00	0.000E+00	-0.517
CE-139	7.506E-01	3.338E+00	5.421E+00	0.000E+00	0.138
BA-140	-3.464E+00	1.680E+01	2.747E+01	0.000E+00	-0.126
LA-140	1.752E+00	5.841E+00	9.796E+00	0.000E+00	0.179
CE-141	-2.042E+00	7.264E+00	9.955E+00	0.000E+00	-0.205
CE-144	-1.684E+01	2.732E+01	3.871E+01	0.000E+00	-0.435
EU-152	-1.336E+01	1.206E+01	1.639E+01	0.000E+00	-0.815
EU-154	-6.194E-01	6.584E+00	1.075E+01	0.000E+00	-0.058
RA-226	-1.573E+01	8.522E+01	1.428E+02	0.000E+00	-0.110
AC-228	-4.514E-01	1.371E+01	2.217E+01	0.000E+00	-0.020
TH-232	-4.503E-01	1.368E+01	2.212E+01	0.000E+00	-0.020
U-235	-5.037E+00	2.916E+01	4.015E+01	0.000E+00	-0.125
U-238	-2.343E+02	3.896E+02	6.040E+02	0.000E+00	-0.388
AM-241	-2.488E+01	3.012E+01	4.739E+01	0.000E+00	-0.525

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A,13L28895-7       ,06/15/2006 14:39,06/08/2006 14:35,   3.046E+00,WG L28895-7 TM
B,13L28895-7       ,LIBD                   ,06/13/2006 09:43,133L082404
C,K-40     ,YES,   2.425E+01,   4.753E+01,   5.907E+01,,    0.411
C,TH-228   ,YES,   2.257E+00,   7.301E+00,   9.853E+00,,    0.229
C,BE-7     ,NO ,  -9.924E+00,   3.054E+01,   4.857E+01,,   -0.204
C,NA-24    ,NO ,  -1.125E+03,   8.165E+03,   1.330E+04,,   -0.085
C,CR-51    ,NO ,   1.254E+00,   3.113E+01,   5.192E+01,,    0.024
C,MN-54    ,NO ,  -3.224E+00,   3.283E+00,   4.994E+00,,   -0.646
C,CO-57    ,NO ,   1.032E+00,   3.162E+00,   5.236E+00,,    0.197
C,CO-58    ,NO ,  -3.716E+00,   3.538E+00,   5.387E+00,,   -0.690
C,FE-59    ,NO ,  -3.451E+00,   6.830E+00,   1.075E+01,,   -0.321
C,CO-60    ,NO ,   4.213E-01,   3.498E+00,   5.849E+00,,    0.072
C,ZN-65    ,NO ,   1.619E+01,   9.360E+00,   1.528E+01,,    1.059
C,SE-75    ,NO ,  -7.071E+00,   4.671E+00,   7.153E+00,,   -0.989
C,SR-85    ,NO ,   2.152E+01,   4.114E+00,   8.157E+00,,    2.638
C,Y-88     ,NO ,  -5.139E-01,   3.762E+00,   6.070E+00,,   -0.085
C,NB-94    ,NO ,  -4.331E-01,   3.201E+00,   5.284E+00,,   -0.082
C,NB-95    ,NO ,   3.375E+00,   3.628E+00,   6.343E+00,,    0.532
C,ZR-95    ,NO ,  -1.348E+00,   5.914E+00,   9.633E+00,,   -0.140
C,MO-99    ,NO ,  -1.179E-01,   1.405E+02,   2.329E+02,,   -0.001
C,RU-103   ,NO ,  -4.498E-01,   3.649E+00,   6.032E+00,,   -0.075
C,RU-106   ,NO ,  -6.380E+00,   3.276E+01,   5.299E+01,,   -0.120
C,AG-110m  ,NO ,  -1.942E-01,   3.338E+00,   5.419E+00,,   -0.036
C,SN-113   ,NO ,   2.772E+00,   4.474E+00,   7.563E+00,,    0.366
C,SB-124   ,NO ,   1.612E+00,   6.965E+00,   5.402E+00,,    0.298
C,SB-125   ,NO ,  -7.568E+00,   9.807E+00,   1.538E+01,,   -0.492
C,TE-129M  ,NO ,  -1.293E+01,   4.229E+01,   6.755E+01,,   -0.191
C,I-131    ,NO ,   2.947E+00,   5.968E+00,   1.008E+01,,    0.292
C,BA-133   ,NO ,   5.889E+00,   5.763E+00,   8.596E+00,,    0.685
C,CS-134   ,NO ,   1.483E+01,   6.885E+00,   7.245E+00,,    2.047
C,CS-136   ,NO ,   1.380E-01,   4.604E+00,   7.590E+00,,    0.018
C,CS-137   ,NO ,  -2.853E+00,   3.651E+00,   5.514E+00,,   -0.517
C,CE-139   ,NO ,   7.506E-01,   3.338E+00,   5.421E+00,,    0.138
C,BA-140   ,NO ,  -3.464E+00,   1.680E+01,   2.747E+01,,   -0.126
C,LA-140   ,NO ,   1.752E+00,   5.841E+00,   9.796E+00,,    0.179
C,CE-141   ,NO ,  -2.042E+00,   7.264E+00,   9.955E+00,,   -0.205
C,CE-144   ,NO ,  -1.684E+01,   2.732E+01,   3.871E+01,,   -0.435
C,EU-152   ,NO ,  -1.336E+01,   1.206E+01,   1.639E+01,,   -0.815
C,EU-154   ,NO ,  -6.194E-01,   6.584E+00,   1.075E+01,,   -0.058
C,RA-226   ,NO ,  -1.573E+01,   8.522E+01,   1.428E+02,,   -0.110
C,AC-228   ,NO ,  -4.514E-01,   1.371E+01,   2.217E+01,,   -0.020
C,TH-232   ,NO ,  -4.503E-01,   1.368E+01,   2.212E+01,,   -0.020
C,U-235    ,NO ,  -5.037E+00,   2.916E+01,   4.015E+01,,   -0.125
C,U-238    ,NO ,  -2.343E+02,   3.896E+02,   6.040E+02,,   -0.388
C,AM-241   ,NO ,  -2.488E+01,   3.012E+01,   4.739E+01,,   -0.525
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 18:08:48.32
TBE10 12892256 HpGe ********** Aquisition Date/Time: 15-JUN-2006 13:53:36.10

LIMS No., Customer Name, Client ID: WG L28895-8 TMI

Sample ID : 10L28895-8
Sample Type : WG
Quantity : 3.09790E+00 L
Start Channel : 80 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 2-JUN-2006 14:00:00.0
Geometry : 103L083004
BKGFILE : 10BG060306MT
Real Time : 0 04:15:08.75
Live time : 0 04:15:06.21

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	65.96*	101	404	1.64	131.33	7.14E-01	6.57E-03	37.9	1.73E+00
2	1	92.92*	18	502	1.73	185.27	1.52E+00	1.15E-03	254.8	1.73E+00
3	1	140.18	54	346	0.91	279.85	1.91E+00	3.53E-03	56.0	2.58E+00
4	1	197.99*	68	338	1.08	395.52	1.72E+00	4.44E-03	54.7	1.34E+00
5	1	238.67*	57	361	1.99	476.92	1.54E+00	3.70E-03	73.5	1.79E+00
6	1	583.02*	46	115	3.05	1166.12	7.99E-01	2.99E-03	59.2	2.65E+00
7	1	596.13	70	124	1.95	1192.37	7.85E-01	4.56E-03	37.6	2.09E+00
8	1	609.00*	25	109	1.89	1218.13	7.73E-01	1.61E-03	104.1	1.87E+00
9	1	875.59	451	151	12.70	1751.86	5.83E-01	2.95E-02	9.2	3.83E+01
10	1	1460.46*	7	40	1.73	2923.24	3.89E-01	4.89E-04	250.4	8.74E-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	7	10.67*	3.887E-01	1.030E+01	1.030E+01	500.70
TH-228	238.63	57	44.60*	1.538E+00	4.710E+00	4.771E+00	146.99
	240.98	------	3.95	1.529E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L28895-8

Acquisition date : 15-JUN-2006 13:53:36

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	1.030E+01	1.030E+01	5.156E+01	500.70	
TH-228	1.91Y	1.01	4.710E+00	4.771E+00	7.013E+00	146.99	
			---	---			
	Total Activity :		1.501E+01	1.507E+01			
	Grand Total Activity :		1.501E+01	1.507E+01			

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

Unidentified Energy Lines
Sample ID : 10L28895-8

Acquisition date : 15-JUN-2006 13:53:36

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	65.96	101	404	1.64	131.33	128	8	6.57E-03	75.8	7.14E-01	
1	92.92	18	502	1.73	185.27	181	9	1.15E-03	****	1.52E+00	
1	140.18	54	346	0.91	279.85	277	6	3.53E-03	****	1.91E+00	
1	197.99	68	338	1.08	395.52	392	9	4.44E-03	****	1.72E+00	
1	583.02	46	115	3.05	1166.12	1161	16	2.99E-03	****	7.99E-01	T
1	596.13	70	124	1.95	1192.37	1185	15	4.56E-03	75.1	7.85E-01	
1	609.00	25	109	1.89	1218.13	1212	15	1.61E-03	****	7.73E-01	
1	875.59	451	151	12.70	1751.86	1731	39	2.95E-02	18.5	5.83E-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	1.030E+01	1.030E+01	5.156E+01	500.70	
TH-228	1.91Y	1.01	4.710E+00	4.771E+00	7.013E+00	146.99	
			---	---			
	Total Activity :		1.501E+01	1.507E+01			

Grand Total Activity : 1.501E+01 1.507E+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	1.030E+01	5.156E+01	5.171E+01	0.000E+00	0.199
TH-228	4.771E+00	7.013E+00	8.730E+00	0.000E+00	0.547

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-9.441E+00		2.926E+01	4.793E+01	0.000E+00	-0.197

NA-24	4.150E+00	3.173E+00	Half-Life too short		
CR-51	-3.923E+01	3.559E+01	5.514E+01	0.000E+00	-0.711
MN-54	-3.523E-02	3.022E+00	4.919E+00	0.000E+00	-0.007
CO-57	3.654E+00	2.773E+00	4.763E+00	0.000E+00	0.767
CO-58	1.082E+00	3.215E+00	5.367E+00	0.000E+00	0.202
FE-59	8.214E+00	6.752E+00	1.215E+01	0.000E+00	0.676
CO-60	1.390E+00	3.323E+00	5.610E+00	0.000E+00	0.248
ZN-65	2.119E+00	6.690E+00	1.133E+01	0.000E+00	0.187
SE-75	9.762E-01	4.131E+00	6.834E+00	0.000E+00	0.143
SR-85	2.210E+01	3.924E+00	7.735E+00	0.000E+00	2.857
Y-88	3.162E+00	3.776E+00	6.699E+00	0.000E+00	0.472
NB-94	-4.512E-01	3.010E+00	4.933E+00	0.000E+00	-0.091
NB-95	-4.369E-01	3.358E+00	5.467E+00	0.000E+00	-0.080
ZR-95	3.059E+00	5.819E+00	9.866E+00	0.000E+00	0.310
MO-99	2.491E+02	5.566E+02	9.420E+02	0.000E+00	0.264
RU-103	1.168E+00	3.614E+00	6.085E+00	0.000E+00	0.192
RU-106	3.442E+01	3.150E+01	5.164E+01	0.000E+00	0.667
AG-110m	3.188E+00	3.047E+00	5.339E+00	0.000E+00	0.597
SN-113	-1.023E+00	4.265E+00	6.942E+00	0.000E+00	-0.147
SB-124	1.630E+00	7.743E+00	5.619E+00	0.000E+00	0.290
SB-125	-1.499E-01	8.598E+00	1.403E+01	0.000E+00	-0.011
TE-129M	-2.269E+01	4.341E+01	6.869E+01	0.000E+00	-0.330
I-131	5.261E-01	9.434E+00	1.562E+01	0.000E+00	0.034
BA-133	1.996E+00	4.202E+00	7.081E+00	0.000E+00	0.282
CS-134	4.556E+00	6.853E+00	5.418E+00	0.000E+00	0.841
CS-136	-1.344E+00	5.611E+00	9.005E+00	0.000E+00	-0.149
CS-137	8.781E-01	3.358E+00	5.651E+00	0.000E+00	0.155
CE-139	3.139E+00	3.021E+00	5.078E+00	0.000E+00	0.618
BA-140	2.016E+01	2.063E+01	3.570E+01	0.000E+00	0.565
LA-140	-6.590E-01	7.062E+00	1.144E+01	0.000E+00	-0.058
CE-141	2.471E-01	7.240E+00	1.019E+01	0.000E+00	0.024
CE-144	1.046E+01	2.378E+01	3.648E+01	0.000E+00	0.287
EU-152	-1.181E+01	9.786E+00	1.552E+01	0.000E+00	-0.761
EU-154	4.316E+00	5.673E+00	9.609E+00	0.000E+00	0.449
RA-226	-3.424E+01	7.471E+01	1.160E+02	0.000E+00	-0.295
AC-228	9.929E+00	1.289E+01	2.168E+01	0.000E+00	0.458
TH-232	9.887E+00	1.283E+01	2.159E+01	0.000E+00	0.458
U-235	1.483E+01	2.536E+01	3.646E+01	0.000E+00	0.407
U-238	4.913E+01	3.374E+02	5.588E+02	0.000E+00	0.088
AM-241	-8.341E+00	2.474E+01	3.757E+01	0.000E+00	-0.222

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A,10L28895-8        ,06/15/2006 18:08,06/02/2006 14:00,   3.098E+00,WG L28895-8 TM
B,10L28895-8        ,LIBD                ,06/13/2006 09:42,103L083004
C,K-40     ,YES,   1.030E+01,   5.156E+01,   5.171E+01,,    0.199
C,TH-228   ,YES,   4.771E+00,   7.013E+00,   8.730E+00,,    0.547
C,BE-7     ,NO ,  -9.441E+00,   2.926E+01,   4.793E+01,,   -0.197
C,CR-51    ,NO ,  -3.923E+01,   3.559E+01,   5.514E+01,,   -0.711
C,MN-54    ,NO ,  -3.523E-02,   3.022E+00,   4.919E+00,,   -0.007
C,CO-57    ,NO ,   3.654E+00,   2.773E+00,   4.763E+00,,    0.767
C,CO-58    ,NO ,   1.082E+00,   3.215E+00,   5.367E+00,,    0.202
C,FE-59    ,NO ,   8.214E+00,   6.752E+00,   1.215E+01,,    0.676
C,CO-60    ,NO ,   1.390E+00,   3.323E+00,   5.610E+00,,    0.248
C,ZN-65    ,NO ,   2.119E+00,   6.690E+00,   1.133E+01,,    0.187
C,SE-75    ,NO ,   9.762E-01,   4.131E+00,   6.834E+00,,    0.143
C,SR-85    ,NO ,   2.210E+01,   3.924E+00,   7.735E+00,,    2.857
C,Y-88     ,NO ,   3.162E+00,   3.776E+00,   6.699E+00,,    0.472
C,NB-94    ,NO ,  -4.512E-01,   3.010E+00,   4.933E+00,,   -0.091
C,NB-95    ,NO ,  -4.369E-01,   3.358E+00,   5.467E+00,,   -0.080
C,ZR-95    ,NO ,   3.059E+00,   5.819E+00,   9.866E+00,,    0.310
C,MO-99    ,NO ,   2.491E+02,   5.566E+02,   9.420E+02,,    0.264
C,RU-103   ,NO ,   1.168E+00,   3.614E+00,   6.085E+00,,    0.192
C,RU-106   ,NO ,   3.442E+01,   3.150E+01,   5.164E+01,,    0.667
C,AG-110m  ,NO ,   3.188E+00,   3.047E+00,   5.339E+00,,    0.597
C,SN-113   ,NO ,  -1.023E+00,   4.265E+00,   6.942E+00,,   -0.147
C,SB-124   ,NO ,   1.630E+00,   7.743E+00,   5.619E+00,,    0.290
C,SB-125   ,NO ,  -1.499E-01,   8.598E+00,   1.403E+01,,   -0.011
C,TE-129M  ,NO ,  -2.269E+01,   4.341E+01,   6.869E+01,,   -0.330
C,I-131    ,NO ,   5.261E-01,   9.434E+00,   1.562E+01,,    0.034
C,BA-133   ,NO ,   1.996E+00,   4.202E+00,   7.081E+00,,    0.282
C,CS-134   ,NO ,   4.556E+00,   6.853E+00,   5.418E+00,,    0.841
C,CS-136   ,NO ,  -1.344E+00,   5.611E+00,   9.005E+00,,   -0.149
C,CS-137   ,NO ,   8.781E-01,   3.358E+00,   5.651E+00,,    0.155
C,CE-139   ,NO ,   3.139E+00,   3.021E+00,   5.078E+00,,    0.618
C,BA-140   ,NO ,   2.016E+01,   2.063E+01,   3.570E+01,,    0.565
C,LA-140   ,NO ,  -6.590E-01,   7.062E+00,   1.144E+01,,   -0.058
C,CE-141   ,NO ,   2.471E-01,   7.240E+00,   1.019E+01,,    0.024
C,CE-144   ,NO ,   1.046E+01,   2.378E+01,   3.648E+01,,    0.287
C,EU-152   ,NO ,  -1.181E+01,   9.786E+00,   1.552E+01,,   -0.761
C,EU-154   ,NO ,   4.316E+00,   5.673E+00,   9.609E+00,,    0.449
C,RA-226   ,NO ,  -3.424E+01,   7.471E+01,   1.160E+02,,   -0.295
C,AC-228   ,NO ,   9.929E+00,   1.289E+01,   2.168E+01,,    0.458
C,TH-232   ,NO ,   9.887E+00,   1.283E+01,   2.159E+01,,    0.458
C,U-235    ,NO ,   1.483E+01,   2.536E+01,   3.646E+01,,    0.407
C,U-238    ,NO ,   4.913E+01,   3.374E+02,   5.588E+02,,    0.088
C,AM-241   ,NO ,  -8.341E+00,   2.474E+01,   3.757E+01,,   -0.222
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 17:59:19.83
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 15-JUN-2006 13:53:38.33

LIMS No., Customer Name, Client ID: WG L28895-9 TMI

Sample ID : 11L28895-9
Sample Type : WG
Quantity : 3.05860E+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-JUN-2006 10:45:00.0
Geometry : 113L082304
BKGFILE : 11BG060306MT
Real Time : 0 04:05:30.33
Live time : 0 04:05:24.80

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	77.75	244	938	1.49	154.57	1.07E+00	1.66E-02	24.2	
2	0	197.93	108	536	1.50	395.61	1.75E+00	7.34E-03	42.6	
3	3	238.51*	19	363	1.47	476.97	1.58E+00	1.32E-03	194.6	1.84E+00
4	3	242.02	184	341	1.56	484.01	1.56E+00	1.25E-02	19.6	
5	0	295.47*	326	398	1.26	591.16	1.37E+00	2.21E-02	14.5	
6	0	351.82*	608	221	1.36	704.09	1.20E+00	4.13E-02	6.6	
7	0	609.10*	509	112	1.56	1219.47	7.90E-01	3.46E-02	6.4	
8	0	768.34	46	83	1.62	1538.19	6.58E-01	3.09E-03	41.4	
9	0	911.42*	17	40	3.59	1824.44	5.74E-01	1.12E-03	101.2	
10	0	969.39*	1	48	1.41	1940.36	5.47E-01	4.80E-05	*****	
11	0	1120.06*	144	46	1.58	2241.55	4.86E-01	9.81E-03	14.2	
12	0	1238.71	71	51	4.99	2478.62	4.48E-01	4.84E-03	27.0	
13	0	1377.27	62	14	1.70	2755.34	4.11E-01	4.24E-03	17.1	
14	0	1460.08*	32	46	1.34	2920.66	3.92E-01	2.20E-03	58.8	
15	0	1761.53	107	24	1.83	3522.05	3.39E-01	7.29E-03	14.0	

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	32	10.67*	3.921E-01	4.639E+01	4.639E+01	117.51
AC-228	835.50	------	1.75	6.158E-01	------	Line Not Found	------
	911.07	17	27.70*	5.744E-01	6.229E+00	6.244E+00	202.49
TH-228	238.63	19	44.60*	1.577E+00	1.660E+00	1.672E+00	389.23
	240.98	------	3.95	1.567E+00	------	Line Not Found	------
TH-232	583.14	------	30.25	8.172E-01	------	Line Not Found	------
	911.07	17	27.70*	5.744E-01	6.229E+00	6.229E+00	202.49
	969.11	1	16.60	5.465E-01	4.680E-01	4.680E-01	4344.14

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 11L28895-9

Acquisition date : 15-JUN-2006 13:53:38

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
K-40	1.28E+09Y	1.00	4.639E+01	4.639E+01	5.451E+01	117.51	
AC-228	5.75Y	1.00	6.229E+00	6.244E+00	12.64E+00	202.49	
TH-228	1.91Y	1.01	1.660E+00	1.672E+00	6.508E+00	389.23	
TH-232	1.41E+10Y	1.00	6.229E+00	6.229E+00	12.61E+00	202.49	
			---	---			
	Total Activity :		6.051E+01	6.054E+01			

Grand Total Activity : 6.051E+01 6.054E+01

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

Unidentified Energy Lines
Sample ID : 11L28895-9

Acquisition date : 15-JUN-2006 13:53:38

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	77.75	244	938	1.49	154.57	151	9	1.66E-02	48.3	1.07E+00	
0	197.93	108	536	1.50	395.61	391	11	7.34E-03	85.2	1.75E+00	
3	242.02	184	341	1.56	484.01	473	16	1.25E-02	39.3	1.56E+00	
0	295.47	326	398	1.26	591.16	584	14	2.21E-02	29.1	1.37E+00	
0	351.82	608	221	1.36	704.09	698	11	4.13E-02	13.1	1.20E+00	
0	609.10	509	112	1.56	1219.47	1214	12	3.46E-02	12.7	7.90E-01	
0	768.34	46	83	1.62	1538.19	1534	11	3.09E-03	82.8	6.58E-01	
0	1120.06	144	46	1.58	2241.55	2234	17	9.81E-03	28.4	4.86E-01	
0	1238.71	71	51	4.99	2478.62	2469	19	4.84E-03	54.0	4.48E-01	
0	1377.27	62	14	1.70	2755.34	2749	11	4.24E-03	34.1	4.11E-01	
0	1761.53	107	24	1.83	3522.05	3514	16	7.29E-03	28.1	3.39E-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
K-40	1.28E+09Y	1.00	4.639E+01	4.639E+01	5.451E+01	117.51	
AC-228	5.75Y	1.00	5.761E+00	5.775E+00	23.98E+00	415.30	
TH-228	1.91Y	1.01	1.660E+00	1.672E+00	6.508E+00	389.23	
TH-232	1.41E+10Y	1.00	4.680E-01	4.680E-01	203.3E-01	4344.14	
			---	---			
	Total Activity :		5.428E+01	5.430E+01			

Grand Total Activity : 5.428E+01 5.430E+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	4.639E+01	5.451E+01	4.931E+01	0.000E+00	0.941
AC-228	5.775E+00	2.398E+01	1.830E+01	0.000E+00	0.316

TH-228	1.672E+00	6.508E+00	1.092E+01	0.000E+00	0.153
TH-232	4.680E-01	2.033E+01	2.153E+01	0.000E+00	0.022

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	2.510E+01		3.123E+01	5.273E+01	0.000E+00	0.476
NA-24	-1.232E+04		1.230E+04	1.450E+04	0.000E+00	-0.850
CR-51	-2.286E+01		3.323E+01	5.370E+01	0.000E+00	-0.426
MN-54	-3.524E-01		3.426E+00	5.576E+00	0.000E+00	-0.063
CO-57	1.455E+00		3.373E+00	5.615E+00	0.000E+00	0.259
CO-58	3.997E-01		3.476E+00	5.739E+00	0.000E+00	0.070
FE-59	-5.890E-01		6.420E+00	1.056E+01	0.000E+00	-0.056
CO-60	2.101E+00		3.207E+00	5.559E+00	0.000E+00	0.378
ZN-65	2.743E+01		9.391E+00	1.628E+01	0.000E+00	1.684
SE-75	2.064E-01		4.617E+00	7.693E+00	0.000E+00	0.027
SR-85	1.593E+01		4.101E+00	7.567E+00	0.000E+00	2.106
Y-88	-2.695E+00		4.084E+00	6.297E+00	0.000E+00	-0.428
NB-94	-2.726E+00		3.114E+00	4.890E+00	0.000E+00	-0.557
NB-95	6.349E+00		4.174E+00	6.492E+00	0.000E+00	0.978
ZR-95	-1.890E+00		6.315E+00	9.921E+00	0.000E+00	-0.191
MO-99	7.844E+01		1.509E+02	2.555E+02	0.000E+00	0.307
RU-103	3.872E-01		3.721E+00	6.092E+00	0.000E+00	0.064
RU-106	1.388E+01		3.021E+01	5.067E+01	0.000E+00	0.274
AG-110m	-1.346E-01		3.223E+00	5.320E+00	0.000E+00	-0.025
SN-113	4.475E+00		4.635E+00	7.888E+00	0.000E+00	0.567
SB-124	-8.418E+00		4.710E+00	5.827E+00	0.000E+00	-1.445
SB-125	5.440E+00		9.965E+00	1.668E+01	0.000E+00	0.326
TE-129M	-6.061E+00		4.373E+01	7.103E+01	0.000E+00	-0.085
I-131	2.933E+00		6.334E+00	1.061E+01	0.000E+00	0.276
BA-133	3.259E+01		6.367E+00	1.080E+01	0.000E+00	3.016
CS-134	2.308E+01		5.288E+00	8.929E+00	0.000E+00	2.585
CS-136	-4.517E+00		4.650E+00	7.154E+00	0.000E+00	-0.631
CS-137	1.491E-01		3.527E+00	5.847E+00	0.000E+00	0.025
CE-139	1.486E+00		3.527E+00	5.830E+00	0.000E+00	0.255
BA-140	1.045E+01		1.686E+01	2.823E+01	0.000E+00	0.370
LA-140	2.203E+00		5.350E+00	9.208E+00	0.000E+00	0.239
CE-141	-1.213E+01		6.699E+00	1.054E+01	0.000E+00	-1.151
CE-144	-3.193E+01		2.664E+01	4.265E+01	0.000E+00	-0.749
EU-152	-1.263E+01		1.276E+01	1.689E+01	0.000E+00	-0.748
EU-154	3.452E+00		6.990E+00	1.165E+01	0.000E+00	0.296
RA-226	2.010E+00		9.123E+01	1.453E+02	0.000E+00	0.014
U-235	3.204E+00		2.642E+01	4.351E+01	0.000E+00	0.074
U-238	1.652E+02		3.530E+02	6.049E+02	0.000E+00	0.273
AM-241	-9.325E+01		4.377E+01	6.800E+01	0.000E+00	-1.371

```
A,11L28895-9        ,06/15/2006 17:59,06/08/2006 10:45,   3.059E+00,WG L28895-9 TM
B,11L28895-9        ,LIBD                ,06/07/2006 09:40,113L082304
C,K-40     ,YES,    4.639E+01,   5.451E+01,   4.931E+01,,    0.941
C,AC-228   ,YES,    5.775E+00,   2.398E+01,   1.830E+01,,    0.316
C,TH-228   ,YES,    1.672E+00,   6.508E+00,   1.092E+01,,    0.153
C,TH-232   ,YES,    4.680E-01,   2.033E+01,   2.153E+01,,    0.022
C,BE-7     ,NO ,    2.510E+01,   3.123E+01,   5.273E+01,,    0.476
C,NA-24    ,NO ,   -1.232E+04,   1.230E+04,   1.450E+04,,   -0.850
C,CR-51    ,NO ,   -2.286E+01,   3.323E+01,   5.370E+01,,   -0.426
C,MN-54    ,NO ,   -3.524E-01,   3.426E+00,   5.576E+00,,   -0.063
C,CO-57    ,NO ,    1.455E+00,   3.373E+00,   5.615E+00,,    0.259
C,CO-58    ,NO ,    3.997E-01,   3.476E+00,   5.739E+00,,    0.070
C,FE-59    ,NO ,   -5.890E-01,   6.420E+00,   1.056E+01,,   -0.056
C,CO-60    ,NO ,    2.101E+00,   3.207E+00,   5.559E+00,,    0.378
C,ZN-65    ,NO ,    2.743E+01,   9.391E+00,   1.628E+01,,    1.684
C,SE-75    ,NO ,    2.064E-01,   4.617E+00,   7.693E+00,,    0.027
C,SR-85    ,NO ,    1.593E+01,   4.101E+00,   7.567E+00,,    2.106
C,Y-88     ,NO ,   -2.695E+00,   4.084E+00,   6.297E+00,,   -0.428
C,NB-94    ,NO ,   -2.726E+00,   3.114E+00,   4.890E+00,,   -0.557
C,NB-95    ,NO ,    6.349E+00,   4.174E+00,   6.492E+00,,    0.978
C,ZR-95    ,NO ,   -1.890E+00,   6.315E+00,   9.921E+00,,   -0.191
C,MO-99    ,NO ,    7.844E+01,   1.509E+02,   2.555E+02,,    0.307
C,RU-103   ,NO ,    3.872E-01,   3.721E+00,   6.092E+00,,    0.064
C,RU-106   ,NO ,    1.388E+01,   3.021E+01,   5.067E+01,,    0.274
C,AG-110m  ,NO ,   -1.346E-01,   3.223E+00,   5.320E+00,,   -0.025
C,SN-113   ,NO ,    4.475E+00,   4.635E+00,   7.888E+00,,    0.567
C,SB-124   ,NO ,   -8.418E+00,   4.710E+00,   5.827E+00,,   -1.445
C,SB-125   ,NO ,    5.440E+00,   9.965E+00,   1.668E+01,,    0.326
C,TE-129M  ,NO ,   -6.061E+00,   4.373E+01,   7.103E+01,,   -0.085
C,I-131    ,NO ,    2.933E+00,   6.334E+00,   1.061E+01,,    0.276
C,BA-133   ,NO ,    3.259E+01,   6.367E+00,   1.080E+01,,    3.016
C,CS-134   ,NO ,    2.308E+01,   5.288E+00,   8.929E+00,,    2.585
C,CS-136   ,NO ,   -4.517E+00,   4.650E+00,   7.154E+00,,   -0.631
C,CS-137   ,NO ,    1.491E-01,   3.527E+00,   5.847E+00,,    0.025
C,CE-139   ,NO ,    1.486E+00,   3.527E+00,   5.830E+00,,    0.255
C,BA-140   ,NO ,    1.045E+01,   1.686E+01,   2.823E+01,,    0.370
C,LA-140   ,NO ,    2.203E+00,   5.350E+00,   9.208E+00,,    0.239
C,CE-141   ,NO ,   -1.213E+01,   6.699E+00,   1.054E+01,,   -1.151
C,CE-144   ,NO ,   -3.193E+01,   2.664E+01,   4.265E+01,,   -0.749
C,EU-152   ,NO ,   -1.263E+01,   1.276E+01,   1.689E+01,,   -0.748
C,EU-154   ,NO ,    3.452E+00,   6.990E+00,   1.165E+01,,    0.296
C,RA-226   ,NO ,    2.010E+00,   9.123E+01,   1.453E+02,,    0.014
C,U-235    ,NO ,    3.204E+00,   2.642E+01,   4.351E+01,,    0.074
C,U-238    ,NO ,    1.652E+02,   3.530E+02,   6.049E+02,,    0.273
C,AM-241   ,NO ,   -9.325E+01,   4.377E+01,   6.800E+01,,   -1.371
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 16:38:46.97
TBE23 03017322 HpGe ********** Aquisition Date/Time: 15-JUN-2006 13:54:51.32

LIMS No., Customer Name, Client ID: WG L28895-10 TMI

Sample ID : 23L28895-10
Sample Type : WG
Quantity : 3.08370E+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: 8-JUN-2006 09:35:00.0
Geometry : 233L082404
BKGFILE : 23BG060306MT
Real Time : 0 02:43:42.14
Live time : 0 02:43:35.58

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	5	33.80*	9	24	1.29	67.93	8.27E-02	8.69E-04	223.8	5.69E+00
2	0	62.86*	30	224	0.92	126.01	1.03E+00	3.02E-03	92.0	
3	0	92.13*	63	453	1.53	184.49	1.93E+00	6.38E-03	69.9	
4	0	198.14*	37	305	1.13	396.37	2.11E+00	3.76E-03	93.6	
5	0	351.80*	13	164	1.14	703.50	1.43E+00	1.35E-03	213.1	
6	0	608.97*	61	54	1.64	1217.61	9.41E-01	6.24E-03	31.0	
7	0	1461.22*	5	9	1.99	2922.07	5.09E-01	4.73E-04	295.0	

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*	5.095E-01	7.627E+00	7.627E+00	589.93

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L28895-10

Acquisition date : 15-JUN-2006 13:54:51

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	7.627E+00	7.627E+00	44.99E+00	589.93	
		Total Activity :	7.627E+00	7.627E+00			
		Grand Total Activity :	7.627E+00	7.627E+00			

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

Unidentified Energy Lines
Sample ID : 23L28895-10

Acquisition date : 15-JUN-2006 13:54:51

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
5	33.80	9	24	1.29	67.93	64	18	8.69E-04	****	8.27E-02	
0	62.86	30	224	0.92	126.01	123	6	3.02E-03	****	1.03E+00	
0	92.13	63	453	1.53	184.49	179	10	6.38E-03	****	1.93E+00	
0	198.14	37	305	1.13	396.37	391	10	3.76E-03	****	2.11E+00	
0	351.80	13	164	1.14	703.50	696	13	1.35E-03	****	1.43E+00	
0	608.97	61	54	1.64	1217.61	1212	12	6.24E-03	62.0	9.41E-01	

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	7.627E+00	7.627E+00	44.99E+00	589.93	
		Total Activity :	7.627E+00	7.627E+00			

Grand Total Activity : 7.627E+00 7.627E+00

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	7.627E+00	4.499E+01	5.216E+01	0.000E+00	0.146

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	4.078E+01		2.946E+01	5.409E+01	0.000E+00	0.754
NA-24	-8.225E+03		9.689E+03	1.574E+04	0.000E+00	-0.522
CR-51	-8.705E+00		3.256E+01	5.523E+01	0.000E+00	-0.158
MN-54	1.327E+00		3.312E+00	5.913E+00	0.000E+00	0.224
CO-57	-4.659E-01		3.563E+00	5.989E+00	0.000E+00	-0.078

CO-58	8.378E-01	3.222E+00	5.734E+00	0.000E+00	0.146
FE-59	-1.518E+00	6.179E+00	1.078E+01	0.000E+00	-0.141
CO-60	-1.472E+00	3.047E+00	5.175E+00	0.000E+00	-0.284
ZN-65	2.388E+00	6.150E+00	1.132E+01	0.000E+00	0.211
SE-75	-1.268E+00	4.663E+00	7.931E+00	0.000E+00	-0.160
SR-85	1.519E+01	4.131E+00	8.024E+00	0.000E+00	1.892
Y-88	-4.247E-01	3.597E+00	6.443E+00	0.000E+00	-0.066
NB-94	-5.942E-01	3.054E+00	5.262E+00	0.000E+00	-0.113
NB-95	2.740E+00	3.287E+00	6.058E+00	0.000E+00	0.452
ZR-95	-2.264E+00	5.492E+00	9.330E+00	0.000E+00	-0.243
MO-99	4.926E+01	1.374E+02	2.468E+02	0.000E+00	0.200
RU-103	2.573E+00	3.854E+00	6.797E+00	0.000E+00	0.379
RU-106	2.975E+01	2.962E+01	5.495E+01	0.000E+00	0.541
AG-110m	3.329E+00	3.284E+00	6.073E+00	0.000E+00	0.548
SN-113	1.631E+00	4.406E+00	7.675E+00	0.000E+00	0.213
SB-124	-2.835E+00	4.319E+00	6.003E+00	0.000E+00	-0.472
SB-125	2.736E-01	9.324E+00	1.599E+01	0.000E+00	0.017
TE-129M	-2.399E+00	4.251E+01	7.244E+01	0.000E+00	-0.033
I-131	-1.151E+00	6.419E+00	1.090E+01	0.000E+00	-0.106
BA-133	5.050E-02	5.477E+00	7.938E+00	0.000E+00	0.006
CS-134	3.184E+00	4.296E+00	6.639E+00	0.000E+00	0.480
CS-136	-1.162E+00	4.426E+00	7.574E+00	0.000E+00	-0.153
CS-137	-1.363E+00	3.685E+00	6.278E+00	0.000E+00	-0.217
CE-139	-2.069E+00	3.600E+00	5.941E+00	0.000E+00	-0.348
BA-140	-1.462E+01	1.663E+01	2.686E+01	0.000E+00	-0.544
LA-140	6.335E+00	5.734E+00	1.128E+01	0.000E+00	0.561
CE-141	1.854E+00	7.169E+00	1.212E+01	0.000E+00	0.153
CE-144	-1.463E+01	2.838E+01	4.712E+01	0.000E+00	-0.310
EU-152	-7.551E+00	1.284E+01	1.790E+01	0.000E+00	-0.422
EU-154	3.599E+00	7.365E+00	1.257E+01	0.000E+00	0.286
RA-226	-2.758E+01	9.342E+01	1.532E+02	0.000E+00	-0.180
AC-228	7.842E+00	1.293E+01	2.246E+01	0.000E+00	0.349
TH-228	1.794E-01	7.183E+00	1.181E+01	0.000E+00	0.015
TH-232	7.824E+00	1.290E+01	2.241E+01	0.000E+00	0.349
U-235	-3.791E+00	2.934E+01	4.822E+01	0.000E+00	-0.079
U-238	-4.246E+01	3.680E+02	6.278E+02	0.000E+00	-0.068
AM-241	1.917E+01	2.280E+01	3.327E+01	0.000E+00	0.576

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A,23L28895-10      ,06/15/2006 16:38,06/08/2006 09:35,   3.084E+00,WG L28895-10 T
B,23L28895-10      ,LIBD                ,06/01/2006 10:14,233L082404
C,K-40     ,YES,   7.627E+00,   4.499E+01,   5.216E+01,,    0.146
C,BE-7     ,NO ,   4.078E+01,   2.946E+01,   5.409E+01,,    0.754
C,NA-24    ,NO ,  -8.225E+03,   9.689E+03,   1.574E+04,,   -0.522
C,CR-51    ,NO ,  -8.705E+00,   3.256E+01,   5.523E+01,,   -0.158
C,MN-54    ,NO ,   1.327E+00,   3.312E+00,   5.913E+00,,    0.224
C,CO-57    ,NO ,  -4.659E-01,   3.563E+00,   5.989E+00,,   -0.078
C,CO-58    ,NO ,   8.378E-01,   3.222E+00,   5.734E+00,,    0.146
C,FE-59    ,NO ,  -1.518E+00,   6.179E+00,   1.078E+01,,   -0.141
C,CO-60    ,NO ,  -1.472E+00,   3.047E+00,   5.175E+00,,   -0.284
C,ZN-65    ,NO ,   2.388E+00,   6.150E+00,   1.132E+01,,    0.211
C,SE-75    ,NO ,  -1.268E+00,   4.663E+00,   7.931E+00,,   -0.160
C,SR-85    ,NO ,   1.519E+01,   4.131E+00,   8.024E+00,,    1.892
C,Y-88     ,NO ,  -4.247E-01,   3.597E+00,   6.443E+00,,   -0.066
C,NB-94    ,NO ,  -5.942E-01,   3.054E+00,   5.262E+00,,   -0.113
C,NB-95    ,NO ,   2.740E+00,   3.287E+00,   6.058E+00,,    0.452
C,ZR-95    ,NO ,  -2.264E+00,   5.492E+00,   9.330E+00,,   -0.243
C,MO-99    ,NO ,   4.926E+01,   1.374E+02,   2.468E+02,,    0.200
C,RU-103   ,NO ,   2.573E+00,   3.854E+00,   6.797E+00,,    0.379
C,RU-106   ,NO ,   2.975E+01,   2.962E+01,   5.495E+01,,    0.541
C,AG-110m  ,NO ,   3.329E+00,   3.284E+00,   6.073E+00,,    0.548
C,SN-113   ,NO ,   1.631E+00,   4.406E+00,   7.675E+00,,    0.213
C,SB-124   ,NO ,  -2.835E+00,   4.319E+00,   6.003E+00,,   -0.472
C,SB-125   ,NO ,   2.736E-01,   9.324E+00,   1.599E+01,,    0.017
C,TE-129M  ,NO ,  -2.399E+00,   4.251E+01,   7.244E+01,,   -0.033
C,I-131    ,NO ,  -1.151E+00,   6.419E+00,   1.090E+01,,   -0.106
C,BA-133   ,NO ,   5.050E-02,   5.477E+00,   7.938E+00,,    0.006
C,CS-134   ,NO ,   3.184E+00,   4.296E+00,   6.639E+00,,    0.480
C,CS-136   ,NO ,  -1.162E+00,   4.426E+00,   7.574E+00,,   -0.153
C,CS-137   ,NO ,  -1.363E+00,   3.685E+00,   6.278E+00,,   -0.217
C,CE-139   ,NO ,  -2.069E+00,   3.600E+00,   5.941E+00,,   -0.348
C,BA-140   ,NO ,  -1.462E+01,   1.663E+01,   2.686E+01,,   -0.544
C,LA-140   ,NO ,   6.335E+00,   5.734E+00,   1.128E+01,,    0.561
C,CE-141   ,NO ,   1.854E+00,   7.169E+00,   1.212E+01,,    0.153
C,CE-144   ,NO ,  -1.463E+01,   2.838E+01,   4.712E+01,,   -0.310
C,EU-152   ,NO ,  -7.551E+00,   1.284E+01,   1.790E+01,,   -0.422
C,EU-154   ,NO ,   3.599E+00,   7.365E+00,   1.257E+01,,    0.286
C,RA-226   ,NO ,  -2.758E+01,   9.342E+01,   1.532E+02,,   -0.180
C,AC-228   ,NO ,   7.842E+00,   1.293E+01,   2.246E+01,,    0.349
C,TH-228   ,NO ,   1.794E-01,   7.183E+00,   1.181E+01,,    0.015
C,TH-232   ,NO ,   7.824E+00,   1.290E+01,   2.241E+01,,    0.349
C,U-235    ,NO ,  -3.791E+00,   2.934E+01,   4.822E+01,,   -0.079
C,U-238    ,NO ,  -4.246E+01,   3.680E+02,   6.278E+02,,   -0.068
C,AM-241   ,NO ,   1.917E+01,   2.280E+01,   3.327E+01,,    0.576
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 22:42:24.17
TBE14 P-10933A HpGe ********** Aquisition Date/Time: 15-JUN-2006 13:58:55.95

LIMS No., Customer Name, Client ID: WG L28895-11 TMI

Sample ID : 14L28895-11
Sample Type : WG
Quantity : 3.04110E+00 L
Start Channel : 90 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 8-JUN-2006 11:45:00.0
Geometry : 143L082304
BKGFILE : 14BG060306MT
Real Time : 0 08:43:22.61
Live time : 0 08:43:17.38

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.01	249	1418	1.29	133.15	5.02E-01	7.92E-03	28.9	1.76E+00
2	1	92.74*	59	1029	1.58	186.84	1.28E+00	1.87E-03	111.9	1.74E+00
3	1	140.00	408	1173	2.73	281.71	1.89E+00	1.30E-02	16.9	2.82E+00
4	1	185.76*	194	1550	3.51	373.55	1.88E+00	6.18E-03	50.9	2.17E+00
5	1	198.44*	319	985	1.98	399.00	1.83E+00	1.02E-02	21.1	3.22E+00
6	1	238.72*	244	983	2.74	479.78	1.67E+00	7.77E-03	30.1	5.28E+00
7	1	295.27	152	619	1.22	593.19	1.46E+00	4.85E-03	31.6	5.83E-01
8	1	352.28*	260	521	1.35	707.46	1.28E+00	8.29E-03	20.9	2.02E+00
9	1	583.65*	64	332	2.87	1170.68	8.61E-01	2.04E-03	75.1	1.29E+00
10	1	596.25	98	219	1.78	1195.88	8.47E-01	3.13E-03	29.8	7.69E-01
11	1	609.38*	271	336	1.69	1222.14	8.33E-01	8.62E-03	18.5	1.23E+00
12	1	911.05*	14	136	2.79	1824.75	6.16E-01	4.50E-04	192.7	1.32E+00
13	1	1120.55*	61	132	1.63	2242.42	5.30E-01	1.95E-03	50.9	5.14E-01
14	1	1461.47*	57	92	2.22	2920.64	4.36E-01	1.82E-03	57.7	6.09E-01
15	1	1766.17*	57	48	2.41	3525.31	3.79E-01	1.80E-03	39.4	1.90E+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	57	10.67*	4.361E-01	3.473E+01	3.473E+01	115.50
RA-226	186.21	194	3.28*	1.877E+00	8.920E+01	8.920E+01	101.78
AC-228	835.50	------	1.75	6.571E-01	------	Line Not Found	------
	911.07	14	27.70*	6.165E-01	2.343E+00	2.349E+00	385.44
TH-228	238.63	244	44.60*	1.675E+00	9.240E+00	9.307E+00	60.25
	240.98	------	3.95	1.666E+00	------	Line Not Found	------
TH-232	583.14	64	30.25	8.615E-01	6.958E+00	6.958E+00	150.17
	911.07	14	27.70*	6.165E-01	2.343E+00	2.343E+00	385.44
	969.11	------	16.60	5.892E-01	------	Line Not Found	------
U-235	143.76	------	10.50*	1.907E+00	------	Line Not Found	------
	163.35	------	4.70	1.923E+00	------	Line Not Found	------
	185.71	194	54.00	1.877E+00	5.418E+00	5.418E+00	101.78
	205.31	------	4.70	1.809E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 14L28895-11

Acquisition date : 15-JUN-2006 13:58:55

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	3.473E+01	3.473E+01	4.012E+01	115.50	
RA-226	1600.00Y	1.00	8.920E+01	8.920E+01	9.079E+01	101.78	
AC-228	5.75Y	1.00	2.343E+00	2.349E+00	9.053E+00	385.44	
TH-228	1.91Y	1.01	9.240E+00	9.307E+00	5.607E+00	60.25	
TH-232	1.41E+10Y	1.00	2.343E+00	2.343E+00	9.031E+00	385.44	
U-235	7.04E+08Y	1.00	5.418E+00	5.418E+00	5.515E+00	101.78	K
			---	---			
	Total Activity :		1.433E+02	1.434E+02			

Grand Total Activity : 1.433E+02 1.434E+02

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

Unidentified Energy Lines
Sample ID : 14L28895-11 Acquisition date : 15-JUN-2006 13:58:55

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.01	249	1418	1.29	133.15	129	10	7.92E-03	57.8	5.02E-01	
1	92.74	59	1029	1.58	186.84	183	9	1.87E-03	****	1.28E+00	
1	140.00	408	1173	2.73	281.71	277	11	1.30E-02	33.7	1.89E+00	
1	198.44	319	985	1.98	399.00	394	11	1.02E-02	42.1	1.83E+00	
1	295.27	152	619	1.22	593.19	589	10	4.85E-03	63.2	1.46E+00	
1	352.28	260	521	1.35	707.46	702	11	8.29E-03	41.7	1.28E+00	
1	596.25	98	219	1.78	1195.88	1192	10	3.13E-03	59.6	8.47E-01	
1	609.38	271	336	1.69	1222.14	1213	16	8.62E-03	37.0	8.33E-01	
1	1120.55	61	132	1.63	2242.42	2234	16	1.95E-03	****	5.30E-01	
1	1766.17	57	48	2.41	3525.31	3517	17	1.80E-03	78.9	3.79E-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	3.473E+01	3.473E+01	4.012E+01	115.50	
RA-226	1600.00Y	1.00	8.920E+01	8.920E+01	9.079E+01	101.78	
TH-228	1.91Y	1.01	9.240E+00	9.307E+00	5.607E+00	60.25	
TH-232	1.41E+10Y	1.00	4.316E+00	4.316E+00	6.832E+00	158.29	
		Total Activity :	1.375E+02	1.376E+02			

Grand Total Activity : 1.375E+02 1.376E+02

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
K-40	3.473E+01	4.012E+01	3.458E+01	0.000E+00	1.005
RA-226	8.920E+01	9.079E+01	9.436E+01	0.000E+00	0.945
TH-228	9.307E+00	5.607E+00	7.126E+00	0.000E+00	1.306

TH-232	4.316E+00	6.832E+00	1.350E+01	0.000E+00	0.320

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	2.210E+01		2.129E+01	3.578E+01	0.000E+00	0.618
NA-24	-7.727E+03		7.136E+03	1.106E+04	0.000E+00	-0.699
CR-51	-4.422E+00		2.341E+01	3.841E+01	0.000E+00	-0.115
MN-54	1.122E+00		2.402E+00	4.014E+00	0.000E+00	0.279
CO-57	-1.462E+00		2.600E+00	4.216E+00	0.000E+00	-0.347
CO-58	-3.834E+00		2.383E+00	3.671E+00	0.000E+00	-1.044
FE-59	2.645E-01		4.753E+00	7.761E+00	0.000E+00	0.034
CO-60	1.775E+00		2.272E+00	3.902E+00	0.000E+00	0.455
ZN-65	1.159E+01		6.027E+00	9.215E+00	0.000E+00	1.258
SE-75	-2.739E+00		3.295E+00	5.364E+00	0.000E+00	-0.511
SR-85	1.911E+01		2.834E+00	5.305E+00	0.000E+00	3.603
Y-88	1.569E-01		2.302E+00	3.772E+00	0.000E+00	0.042
NB-94	-5.700E-01		2.274E+00	3.726E+00	0.000E+00	-0.153
NB-95	2.216E+00		2.364E+00	4.027E+00	0.000E+00	0.550
ZR-95	-2.742E+00		4.216E+00	6.782E+00	0.000E+00	-0.404
MO-99	-9.828E+00		1.037E+02	1.704E+02	0.000E+00	-0.058
RU-103	1.074E+00		2.717E+00	4.481E+00	0.000E+00	0.240
RU-106	1.877E+01		2.369E+01	3.750E+01	0.000E+00	0.500
AG-110m	-1.097E-01		2.289E+00	3.781E+00	0.000E+00	-0.029
SN-113	5.670E-01		3.203E+00	5.277E+00	0.000E+00	0.107
SB-124	2.016E+00		6.149E+00	4.214E+00	0.000E+00	0.478
SB-125	-3.811E+00		6.860E+00	1.107E+01	0.000E+00	-0.344
TE-129M	-1.241E+00		3.075E+01	5.020E+01	0.000E+00	-0.025
I-131	1.050E+00		4.621E+00	7.352E+00	0.000E+00	0.143
BA-133	1.893E+01		4.060E+00	6.428E+00	0.000E+00	2.945
CS-134	1.331E+01		5.863E+00	4.898E+00	0.000E+00	2.717
CS-136	8.137E-01		3.198E+00	5.310E+00	0.000E+00	0.153
CS-137	1.307E+00		2.554E+00	4.296E+00	0.000E+00	0.304
CE-139	4.601E-02		2.557E+00	4.164E+00	0.000E+00	0.011
BA-140	-8.571E+00		1.250E+01	1.992E+01	0.000E+00	-0.430
LA-140	-2.383E-03		3.681E+00	6.036E+00	0.000E+00	0.000
CE-141	4.422E+00		5.795E+00	8.085E+00	0.000E+00	0.547
CE-144	1.277E+01		2.324E+01	3.232E+01	0.000E+00	0.395
EU-152	-5.950E-01		9.113E+00	1.257E+01	0.000E+00	-0.047
EU-154	-4.471E+00		5.385E+00	8.696E+00	0.000E+00	-0.514
AC-228	2.349E+00		9.053E+00	1.453E+01	0.000E+00	0.162
U-235	3.789E+01		2.331E+01	3.313E+01	0.000E+00	1.144
U-238	7.756E+01		2.455E+02	4.067E+02	0.000E+00	0.191
AM-241	2.138E+01		4.021E+01	5.656E+01	0.000E+00	0.378

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A,14L28895-11      ,06/15/2006 22:42,06/08/2006 11:45,   3.041E+00,WG L28895-11 T
B,14L28895-11      ,LIBD                ,06/14/2006 10:50,143L082304
C,K-40     ,YES,   3.473E+01,   4.012E+01,   3.458E+01,,    1.005
C,RA-226   ,YES,   8.920E+01,   9.079E+01,   9.436E+01,,    0.945
C,TH-228   ,YES,   9.307E+00,   5.607E+00,   7.126E+00,,    1.306
C,TH-232   ,YES,   4.316E+00,   6.832E+00,   1.350E+01,,    0.320
C,BE-7     ,NO ,   2.210E+01,   2.129E+01,   3.578E+01,,    0.618
C,NA-24    ,NO ,  -7.727E+03,   7.136E+03,   1.106E+04,,   -0.699
C,CR-51    ,NO ,  -4.422E+00,   2.341E+01,   3.841E+01,,   -0.115
C,MN-54    ,NO ,   1.122E+00,   2.402E+00,   4.014E+00,,    0.279
C,CO-57    ,NO ,  -1.462E+00,   2.600E+00,   4.216E+00,,   -0.347
C,CO-58    ,NO ,  -3.834E+00,   2.383E+00,   3.671E+00,,   -1.044
C,FE-59    ,NO ,   2.645E-01,   4.753E+00,   7.761E+00,,    0.034
C,CO-60    ,NO ,   1.775E+00,   2.272E+00,   3.902E+00,,    0.455
C,ZN-65    ,NO ,   1.159E+01,   6.027E+00,   9.215E+00,,    1.258
C,SE-75    ,NO ,  -2.739E+00,   3.295E+00,   5.364E+00,,   -0.511
C,SR-85    ,NO ,   1.911E+01,   2.834E+00,   5.305E+00,,    3.603
C,Y-88     ,NO ,   1.569E-01,   2.302E+00,   3.772E+00,,    0.042
C,NB-94    ,NO ,  -5.700E-01,   2.274E+00,   3.726E+00,,   -0.153
C,NB-95    ,NO ,   2.216E+00,   2.364E+00,   4.027E+00,,    0.550
C,ZR-95    ,NO ,  -2.742E+00,   4.216E+00,   6.782E+00,,   -0.404
C,MO-99    ,NO ,  -9.828E+00,   1.037E+02,   1.704E+02,,   -0.058
C,RU-103   ,NO ,   1.074E+00,   2.717E+00,   4.481E+00,,    0.240
C,RU-106   ,NO ,   1.877E+01,   2.369E+01,   3.750E+01,,    0.500
C,AG-110m  ,NO ,  -1.097E-01,   2.289E+00,   3.781E+00,,   -0.029
C,SN-113   ,NO ,   5.670E-01,   3.203E+00,   5.277E+00,,    0.107
C,SB-124   ,NO ,   2.016E+00,   6.149E+00,   4.214E+00,,    0.478
C,SB-125   ,NO ,  -3.811E+00,   6.860E+00,   1.107E+01,,   -0.344
C,TE-129M  ,NO ,  -1.241E+00,   3.075E+01,   5.020E+01,,   -0.025
C,I-131    ,NO ,   1.050E+00,   4.621E+00,   7.352E+00,,    0.143
C,BA-133   ,NO ,   1.893E+01,   4.060E+00,   6.428E+00,,    2.945
C,CS-134   ,NO ,   1.331E+01,   5.863E+00,   4.898E+00,,    2.717
C,CS-136   ,NO ,   8.137E-01,   3.198E+00,   5.310E+00,,    0.153
C,CS-137   ,NO ,   1.307E+00,   2.554E+00,   4.296E+00,,    0.304
C,CE-139   ,NO ,   4.601E-02,   2.557E+00,   4.164E+00,,    0.011
C,BA-140   ,NO ,  -8.571E+00,   1.250E+01,   1.992E+01,,   -0.430
C,LA-140   ,NO ,  -2.383E-03,   3.681E+00,   6.036E+00,,    0.000
C,CE-141   ,NO ,   4.422E+00,   5.795E+00,   8.085E+00,,    0.547
C,CE-144   ,NO ,   1.277E+01,   2.324E+01,   3.232E+01,,    0.395
C,EU-152   ,NO ,  -5.950E-01,   9.113E+00,   1.257E+01,,   -0.047
C,EU-154   ,NO ,  -4.471E+00,   5.385E+00,   8.696E+00,,   -0.514
C,AC-228   ,NO ,   2.349E+00,   9.053E+00,   1.453E+01,,    0.162
C,U-235    ,NO ,   3.789E+01,   2.331E+01,   3.313E+01,,    1.144
C,U-238    ,NO ,   7.756E+01,   2.455E+02,   4.067E+02,,    0.191
C,AM-241   ,NO ,   2.138E+01,   4.021E+01,   5.656E+01,,    0.378
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 16:50:28.41
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 15-JUN-2006 14:24:53.27

LIMS No., Customer Name, Client ID: WG L28895-12 TMI

Sample ID : 07L28895-12
Sample Type : WG
Quantity : 3.08770E+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-JUN-2006 10:05:00.0
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 02:25:30.92
Live time : 0 02:25:29.14

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.47*	78	272	1.07	133.51	8.11E-01	8.90E-03	40.1	6.42E-01
2	3	241.87	77	221	1.79	484.58	2.04E+00	8.85E-03	40.1	1.27E+00
3	1	295.45*	117	170	1.72	591.80	1.81E+00	1.34E-02	24.4	2.03E+00
4	1	351.88*	167	141	1.33	704.72	1.61E+00	1.91E-02	17.8	1.74E+00
5	1	596.61	89	45	2.87	1194.39	1.10E+00	1.01E-02	19.4	1.58E+00
6	1	609.29*	163	87	1.45	1219.75	1.09E+00	1.87E-02	15.1	1.04E+00
7	1	1120.75*	50	24	2.58	2242.73	7.03E-01	5.70E-03	28.3	1.18E+00
8	1	1378.20	30	10	3.00	2757.47	6.07E-01	3.43E-03	28.5	1.07E+00
9	1	1764.61*	23	7	2.46	3529.80	5.12E-01	2.66E-03	38.0	7.54E-01

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

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28895-12

Acquisition date : 15-JUN-2006 14:24:53

Total number of lines in spectrum	9	
Number of unidentified lines	8	
Number of lines tentatively identified by NID	1	11.11%

**** 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 : 07L28895-12

Acquisition date : 15-JUN-2006 14:24:53

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.47	78	272	1.07	133.51	129	8	8.90E-03	80.2	8.11E-01	
3	241.87	77	221	1.79	484.58	472	18	8.85E-03	80.2	2.04E+00	T
1	295.45	117	170	1.72	591.80	586	11	1.34E-02	48.7	1.81E+00	
1	351.88	167	141	1.33	704.72	700	13	1.91E-02	35.6	1.61E+00	
1	596.61	89	45	2.87	1194.39	1187	14	1.01E-02	38.9	1.10E+00	
1	609.29	163	87	1.45	1219.75	1214	13	1.87E-02	30.1	1.09E+00	
1	1120.75	50	24	2.58	2242.73	2237	15	5.70E-03	56.5	7.03E-01	
1	1378.20	30	10	3.00	2757.47	2749	13	3.43E-03	57.0	6.07E-01	
1	1764.61	23	7	2.46	3529.80	3522	13	2.66E-03	76.1	5.12E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 9
Number of unidentified lines 8
Number of lines tentatively identified by NID 1 11.11%
**** 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	-4.324E+00		3.005E+01	4.853E+01	0.000E+00	-0.089
NA-24	3.294E+03		9.765E+03	1.416E+04	0.000E+00	0.233
K-40	2.954E+00		4.191E+01	7.692E+01	0.000E+00	0.038
CR-51	-1.651E+01		3.267E+01	5.324E+01	0.000E+00	-0.310
MN-54	-3.168E+00		3.484E+00	5.399E+00	0.000E+00	-0.587
CO-57	1.123E+00		3.182E+00	5.263E+00	0.000E+00	0.213
CO-58	-1.236E+00		3.367E+00	5.427E+00	0.000E+00	-0.228
FE-59	7.598E+00		6.506E+00	1.178E+01	0.000E+00	0.645
CO-60	1.444E-01		3.379E+00	5.541E+00	0.000E+00	0.026
ZN-65	1.689E+01		7.780E+00	1.357E+01	0.000E+00	1.245
SE-75	2.808E-01		4.431E+00	7.253E+00	0.000E+00	0.039
SR-85	1.770E+01		4.166E+00	8.041E+00	0.000E+00	2.201
Y-88	-3.199E+00		3.626E+00	5.368E+00	0.000E+00	-0.596
NB-94	1.155E+00		3.285E+00	5.481E+00	0.000E+00	0.211
NB-95	5.082E+00		3.385E+00	6.162E+00	0.000E+00	0.825
ZR-95	1.639E+00		6.020E+00	9.969E+00	0.000E+00	0.164
MO-99	3.238E+01		1.428E+02	2.362E+02	0.000E+00	0.137
RU-103	1.618E+00		3.674E+00	6.119E+00	0.000E+00	0.264
RU-106	1.475E+00		2.884E+01	4.636E+01	0.000E+00	0.032

AG-110m	9.043E-01	3.168E+00	5.291E+00	0.000E+00	0.171
SN-113	2.259E-01	4.232E+00	6.989E+00	0.000E+00	0.032
SB-124	1.193E+00	7.047E+00	5.197E+00	0.000E+00	0.229
SB-125	-5.459E+00	8.843E+00	1.398E+01	0.000E+00	-0.390
TE-129M	3.182E+00	4.366E+01	7.153E+01	0.000E+00	0.044
I-131	1.356E+00	5.988E+00	9.872E+00	0.000E+00	0.137
BA-133	1.454E+01	5.821E+00	9.360E+00	0.000E+00	1.553
CS-134	1.860E+01	5.850E+00	7.182E+00	0.000E+00	2.590
CS-136	-1.466E+00	4.419E+00	7.130E+00	0.000E+00	-0.206
CS-137	7.588E-01	3.502E+00	5.820E+00	0.000E+00	0.130
CE-139	-7.292E-01	3.178E+00	5.262E+00	0.000E+00	-0.139
BA-140	4.972E+00	1.699E+01	2.867E+01	0.000E+00	0.173
LA-140	-2.277E+00	5.079E+00	7.916E+00	0.000E+00	-0.288
CE-141	-1.081E+01	6.364E+00	9.717E+00	0.000E+00	-1.112
CE-144	-2.663E+01	2.567E+01	4.037E+01	0.000E+00	-0.660
EU-152	-1.280E+01	1.195E+01	1.554E+01	0.000E+00	-0.824
EU-154	2.646E+00	6.620E+00	1.096E+01	0.000E+00	0.241
RA-226	-5.966E+01	7.861E+01	1.288E+02	0.000E+00	-0.463
AC-228	2.473E+00	1.240E+01	2.081E+01	0.000E+00	0.119
TH-228	8.089E+00	7.536E+00	1.142E+01	0.000E+00	0.708
TH-232	2.467E+00	1.237E+01	2.076E+01	0.000E+00	0.119
U-235	-1.284E+01	2.486E+01	3.965E+01	0.000E+00	-0.324
U-238	5.308E+01	3.358E+02	5.555E+02	0.000E+00	0.096
AM-241	-3.727E+01	3.423E+01	4.647E+01	0.000E+00	-0.802

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A,07L28895-12      ,06/15/2006 16:50,06/08/2006 10:05,   3.088E+00,WG L28895-12 T
B,07L28895-12      ,LIBD                  ,06/07/2006 09:32,073L082504
C,BE-7     ,NO ,  -4.324E+00,   3.005E+01,   4.853E+01,,   -0.089
C,NA-24    ,NO ,   3.294E+03,   9.765E+03,   1.416E+04,,    0.233
C,K-40     ,NO ,   2.954E+00,   4.191E+01,   7.692E+01,,    0.038
C,CR-51    ,NO ,  -1.651E+01,   3.267E+01,   5.324E+01,,   -0.310
C,MN-54    ,NO ,  -3.168E+00,   3.484E+00,   5.399E+00,,   -0.587
C,CO-57    ,NO ,   1.123E+00,   3.182E+00,   5.263E+00,,    0.213
C,CO-58    ,NO ,  -1.236E+00,   3.367E+00,   5.427E+00,,   -0.228
C,FE-59    ,NO ,   7.598E+00,   6.506E+00,   1.178E+01,,    0.645
C,CO-60    ,NO ,   1.444E-01,   3.379E+00,   5.541E+00,,    0.026
C,ZN-65    ,NO ,   1.689E+01,   7.780E+00,   1.357E+01,,    1.245
C,SE-75    ,NO ,   2.808E-01,   4.431E+00,   7.253E+00,,    0.039
C,SR-85    ,NO ,   1.770E+01,   4.166E+00,   8.041E+00,,    2.201
C,Y-88     ,NO ,  -3.199E+00,   3.626E+00,   5.368E+00,,   -0.596
C,NB-94    ,NO ,   1.155E+00,   3.285E+00,   5.481E+00,,    0.211
C,NB-95    ,NO ,   5.082E+00,   3.385E+00,   6.162E+00,,    0.825
C,ZR-95    ,NO ,   1.639E+00,   6.020E+00,   9.969E+00,,    0.164
C,MO-99    ,NO ,   3.238E+01,   1.428E+02,   2.362E+02,,    0.137
C,RU-103   ,NO ,   1.618E+00,   3.674E+00,   6.119E+00,,    0.264
C,RU-106   ,NO ,   1.475E+00,   2.884E+01,   4.636E+01,,    0.032
C,AG-110m  ,NO ,   9.043E-01,   3.168E+00,   5.291E+00,,    0.171
C,SN-113   ,NO ,   2.259E-01,   4.232E+00,   6.989E+00,,    0.032
C,SB-124   ,NO ,   1.193E+00,   7.047E+00,   5.197E+00,,    0.229
C,SB-125   ,NO ,  -5.459E+00,   8.843E+00,   1.398E+01,,   -0.390
C,TE-129M  ,NO ,   3.182E+00,   4.366E+01,   7.153E+01,,    0.044
C,I-131    ,NO ,   1.356E+00,   5.988E+00,   9.872E+00,,    0.137
C,BA-133   ,NO ,   1.454E+01,   5.821E+00,   9.360E+00,,    1.553
C,CS-134   ,NO ,   1.860E+01,   5.850E+00,   7.182E+00,,    2.590
C,CS-136   ,NO ,  -1.466E+00,   4.419E+00,   7.130E+00,,   -0.206
C,CS-137   ,NO ,   7.588E-01,   3.502E+00,   5.820E+00,,    0.130
C,CE-139   ,NO ,  -7.292E-01,   3.178E+00,   5.262E+00,,   -0.139
C,BA-140   ,NO ,   4.972E+00,   1.699E+01,   2.867E+01,,    0.173
C,LA-140   ,NO ,  -2.277E+00,   5.079E+00,   7.916E+00,,   -0.288
C,CE-141   ,NO ,  -1.081E+01,   6.364E+00,   9.717E+00,,   -1.112
C,CE-144   ,NO ,  -2.663E+01,   2.567E+01,   4.037E+01,,   -0.660
C,EU-152   ,NO ,  -1.280E+01,   1.195E+01,   1.554E+01,,   -0.824
C,EU-154   ,NO ,   2.646E+00,   6.620E+00,   1.096E+01,,    0.241
C,RA-226   ,NO ,  -5.966E+01,   7.861E+01,   1.288E+02,,   -0.463
C,AC-228   ,NO ,   2.473E+00,   1.240E+01,   2.081E+01,,    0.119
C,TH-228   ,NO ,   8.089E+00,   7.536E+00,   1.142E+01,,    0.708
C,TH-232   ,NO ,   2.467E+00,   1.237E+01,   2.076E+01,,    0.119
C,U-235    ,NO ,  -1.284E+01,   2.486E+01,   3.965E+01,,   -0.324
C,U-238    ,NO ,   5.308E+01,   3.358E+02,   5.555E+02,,    0.096
C,AM-241   ,NO ,  -3.727E+01,   3.423E+01,   4.647E+01,,   -0.802
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 23:32:02.97
TBE13 P-10727B HpGe ********** Aquisition Date/Time: 15-JUN-2006 14:40:30.60

LIMS No., Customer Name, Client ID: WG L28895-13 TMI

Sample ID : 13L28895-13
Sample Type : WG
Quantity : 2.98690E+00 L
Start Channel : 25 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 8-JUN-2006 10:00:00.0
Geometry : 133L082404
BKGFILE : 13BG060306MT
Real Time : 0 02:15:58.03
Live time : 0 02:15:55.73

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	46.90*	9	156	1.00	93.78	1.67E-01	1.08E-03	255.5	2.59E+00
2	1	92.99*	28	285	1.39	185.94	1.74E+00	3.46E-03	132.5	5.89E+00
3	1	139.58*	52	227	1.41	279.13	2.27E+00	6.36E-03	54.4	1.71E+00
4	1	198.30*	36	242	1.33	396.58	2.12E+00	4.36E-03	90.8	1.79E+00
5	1	238.70*	1	230	1.10	477.39	1.94E+00	1.77E-04	*****	1.01E+00
6	1	351.86*	27	137	2.03	703.75	1.51E+00	3.29E-03	99.0	1.49E+00
7	1	582.81*	8	66	2.10	1165.75	1.04E+00	1.01E-03	201.7	5.09E+00
8	1	595.79	34	40	1.27	1191.73	1.02E+00	4.21E-03	34.6	1.84E+00
9	1	609.23*	24	94	1.98	1218.61	1.01E+00	2.96E-03	94.5	6.38E-01
10	1	1122.45	26	43	0.86	2245.62	6.26E-01	3.22E-03	64.5	5.63E+00
11	1	1461.25*	38	7	2.06	2923.78	5.14E-01	4.64E-03	35.0	1.44E+00
12	1	1765.15*	15	0	2.91	3532.24	4.55E-01	1.78E-03	42.8	4.64E-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	38	10.67*	5.142E-01	7.652E+01	7.652E+01	69.91
TH-228	238.63	1	44.60*	1.938E+00	1.850E-01	1.864E-01	4228.63
	240.98	------	3.95	1.927E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 13L28895-13

Acquisition date : 15-JUN-2006 14:40:30

Total number of lines in spectrum	12	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	3	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	7.652E+01	7.652E+01	5.349E+01	69.91	
TH-228	1.91Y	1.01	1.850E-01	1.864E-01	78.81E-01	4228.63	
			---	---			
	Total Activity :		7.671E+01	7.671E+01			

Grand Total Activity : 7.671E+01 7.671E+01

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

Unidentified Energy Lines
Sample ID : 13L28895-13

Acquisition date : 15-JUN-2006 14:40:30

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	46.90	9	156	1.00	93.78	91	7	1.08E-03	****	1.67E-01	
1	92.99	28	285	1.39	185.94	181	11	3.46E-03	****	1.74E+00	
1	139.58	52	227	1.41	279.13	276	8	6.36E-03	****	2.27E+00	
1	198.30	36	242	1.33	396.58	390	11	4.36E-03	****	2.12E+00	
1	351.86	27	137	2.03	703.75	697	13	3.29E-03	****	1.51E+00	
1	582.81	8	66	2.10	1165.75	1162	9	1.01E-03	****	1.04E+00	T
1	595.79	34	40	1.27	1191.73	1188	7	4.21E-03	69.1	1.02E+00	
1	609.23	24	94	1.98	1218.61	1212	14	2.96E-03	****	1.01E+00	
1	1122.45	26	43	0.86	2245.62	2237	19	3.22E-03	****	6.26E-01	
1	1765.15	15	0	2.91	3532.24	3524	14	1.78E-03	85.7	4.55E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	12	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	3	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	7.652E+01	7.652E+01	5.349E+01	69.91	
TH-228	1.91Y	1.01	1.850E-01	1.864E-01	78.81E-01	4228.63	
			---	---			
Total Activity :			7.671E+01	7.671E+01			

Grand Total Activity : 7.671E+01 7.671E+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	7.652E+01	5.349E+01	6.191E+01	0.000E+00	1.236
TH-228	1.864E-01	7.881E+00	1.015E+01	0.000E+00	0.018

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

Nuclide	Key-Line Activity	K.L.	Act error	MDA	MDA error	Act/MDA

BE-7	-2.475E+01	3.327E+01	5.136E+01	0.000E+00	-0.482
NA-24	4.757E+03	1.132E+04	1.953E+04	0.000E+00	0.244
CR-51	-5.050E+00	3.533E+01	5.844E+01	0.000E+00	-0.086
MN-54	4.965E-01	3.691E+00	6.125E+00	0.000E+00	0.081
CO-57	1.066E+00	3.335E+00	5.528E+00	0.000E+00	0.193
CO-58	1.758E+00	3.742E+00	6.386E+00	0.000E+00	0.275
FE-59	-3.451E-01	7.962E+00	1.305E+01	0.000E+00	-0.026
CO-60	1.121E+00	3.727E+00	6.356E+00	0.000E+00	0.176
ZN-65	-1.921E+00	9.731E+00	1.307E+01	0.000E+00	-0.147
SE-75	7.580E-01	4.631E+00	7.608E+00	0.000E+00	0.100
SR-85	2.408E+01	4.465E+00	9.049E+00	0.000E+00	2.661
Y-88	-2.131E+00	4.241E+00	6.502E+00	0.000E+00	-0.328
NB-94	7.444E-01	3.584E+00	6.047E+00	0.000E+00	0.123
NB-95	9.592E-01	3.621E+00	6.108E+00	0.000E+00	0.157
ZR-95	-5.886E+00	6.398E+00	9.805E+00	0.000E+00	-0.600
MO-99	-3.691E+01	1.470E+02	2.387E+02	0.000E+00	-0.155
RU-103	1.765E+00	4.019E+00	6.853E+00	0.000E+00	0.257
RU-106	-3.530E+01	3.342E+01	5.045E+01	0.000E+00	-0.700
AG-110m	-4.815E-01	3.593E+00	5.798E+00	0.000E+00	-0.083
SN-113	-2.539E+00	4.510E+00	7.169E+00	0.000E+00	-0.354
SB-124	-3.366E+00	9.207E+00	6.125E+00	0.000E+00	-0.549
SB-125	-1.600E+00	1.027E+01	1.661E+01	0.000E+00	-0.096
TE-129M	4.064E+01	4.634E+01	7.920E+01	0.000E+00	0.513
I-131	-1.645E+00	6.353E+00	1.034E+01	0.000E+00	-0.159
BA-133	2.166E+00	5.703E+00	8.242E+00	0.000E+00	0.263
CS-134	2.099E+00	5.447E+00	6.610E+00	0.000E+00	0.318
CS-136	4.664E+00	5.027E+00	8.867E+00	0.000E+00	0.526
CS-137	-3.503E+00	4.008E+00	6.003E+00	0.000E+00	-0.584
CE-139	5.999E-01	3.465E+00	5.623E+00	0.000E+00	0.107
BA-140	-5.954E+00	1.773E+01	2.869E+01	0.000E+00	-0.208
LA-140	-1.105E+00	6.259E+00	9.972E+00	0.000E+00	-0.111
CE-141	7.854E+00	7.629E+00	1.119E+01	0.000E+00	0.702
CE-144	2.174E+01	2.848E+01	4.305E+01	0.000E+00	0.505
EU-152	-5.330E+00	1.329E+01	1.819E+01	0.000E+00	-0.293
EU-154	2.426E+00	6.905E+00	1.145E+01	0.000E+00	0.212
RA-226	2.602E+01	9.018E+01	1.545E+02	0.000E+00	0.168
AC-228	-6.192E+00	1.447E+01	2.290E+01	0.000E+00	-0.270
TH-232	-6.177E+00	1.444E+01	2.284E+01	0.000E+00	-0.270
U-235	2.594E+01	3.032E+01	4.417E+01	0.000E+00	0.587
U-238	1.885E+02	4.422E+02	7.481E+02	0.000E+00	0.252
AM-241	-4.985E+01	3.110E+01	4.714E+01	0.000E+00	-1.058

```
A,13L28895-13      ,06/15/2006 23:32,06/08/2006 10:00,   2.987E+00,WG L28895-13 T
B,13L28895-13      ,LIBD                  ,06/13/2006 09:43,133L082404
C,K-40     ,YES,   7.652E+01,   5.349E+01,   6.191E+01,,    1.236
C,TH-228   ,YES,   1.864E-01,   7.881E+00,   1.015E+01,,    0.018
C,BE-7     ,NO ,  -2.475E+01,   3.327E+01,   5.136E+01,,   -0.482
C,NA-24    ,NO ,   4.757E+03,   1.132E+04,   1.953E+04,,    0.244
C,CR-51    ,NO ,  -5.050E+00,   3.533E+01,   5.844E+01,,   -0.086
C,MN-54    ,NO ,   4.965E-01,   3.691E+00,   6.125E+00,,    0.081
C,CO-57    ,NO ,   1.066E+00,   3.335E+00,   5.528E+00,,    0.193
C,CO-58    ,NO ,   1.758E+00,   3.742E+00,   6.386E+00,,    0.275
C,FE-59    ,NO ,  -3.451E-01,   7.962E+00,   1.305E+01,,   -0.026
C,CO-60    ,NO ,   1.121E+00,   3.727E+00,   6.356E+00,,    0.176
C,ZN-65    ,NO ,  -1.921E+00,   9.731E+00,   1.307E+01,,   -0.147
C,SE-75    ,NO ,   7.580E-01,   4.631E+00,   7.608E+00,,    0.100
C,SR-85    ,NO ,   2.408E+01,   4.465E+00,   9.049E+00,,    2.661
C,Y-88     ,NO ,  -2.131E+00,   4.241E+00,   6.502E+00,,   -0.328
C,NB-94    ,NO ,   7.444E-01,   3.584E+00,   6.047E+00,,    0.123
C,NB-95    ,NO ,   9.592E-01,   3.621E+00,   6.108E+00,,    0.157
C,ZR-95    ,NO ,  -5.886E+00,   6.398E+00,   9.805E+00,,   -0.600
C,MO-99    ,NO ,  -3.691E+01,   1.470E+02,   2.387E+02,,   -0.155
C,RU-103   ,NO ,   1.765E+00,   4.019E+00,   6.853E+00,,    0.257
C,RU-106   ,NO ,  -3.530E+01,   3.342E+01,   5.045E+01,,   -0.700
C,AG-110m  ,NO ,  -4.815E-01,   3.593E+00,   5.798E+00,,   -0.083
C,SN-113   ,NO ,  -2.539E+00,   4.510E+00,   7.169E+00,,   -0.354
C,SB-124   ,NO ,  -3.366E+00,   9.207E+00,   6.125E+00,,   -0.549
C,SB-125   ,NO ,  -1.600E+00,   1.027E+01,   1.661E+01,,   -0.096
C,TE-129M  ,NO ,   4.064E+01,   4.634E+01,   7.920E+01,,    0.513
C,I-131    ,NO ,  -1.645E+00,   6.353E+00,   1.034E+01,,   -0.159
C,BA-133   ,NO ,   2.166E+00,   5.703E+00,   8.242E+00,,    0.263
C,CS-134   ,NO ,   2.099E+00,   5.447E+00,   6.610E+00,,    0.318
C,CS-136   ,NO ,   4.664E+00,   5.027E+00,   8.867E+00,,    0.526
C,CS-137   ,NO ,  -3.503E+00,   4.008E+00,   6.003E+00,,   -0.584
C,CE-139   ,NO ,   5.999E-01,   3.465E+00,   5.623E+00,,    0.107
C,BA-140   ,NO ,  -5.954E+00,   1.773E+01,   2.869E+01,,   -0.208
C,LA-140   ,NO ,  -1.105E+00,   6.259E+00,   9.972E+00,,   -0.111
C,CE-141   ,NO ,   7.854E+00,   7.629E+00,   1.119E+01,,    0.702
C,CE-144   ,NO ,   2.174E+01,   2.848E+01,   4.305E+01,,    0.505
C,EU-152   ,NO ,  -5.330E+00,   1.329E+01,   1.819E+01,,   -0.293
C,EU-154   ,NO ,   2.426E+00,   6.905E+00,   1.145E+01,,    0.212
C,RA-226   ,NO ,   2.602E+01,   9.018E+01,   1.545E+02,,    0.168
C,AC-228   ,NO ,  -6.192E+00,   1.447E+01,   2.290E+01,,   -0.270
C,TH-232   ,NO ,  -6.177E+00,   1.444E+01,   2.284E+01,,   -0.270
C,U-235    ,NO ,   2.594E+01,   3.032E+01,   4.417E+01,,    0.587
C,U-238    ,NO ,   1.885E+02,   4.422E+02,   7.481E+02,,    0.252
C,AM-241   ,NO ,  -4.985E+01,   3.110E+01,   4.714E+01,,   -1.058
```

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

Work Order #: L28875 R1

Exelon

June 23, 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 - L28875
EX001-3ESPTMI-06

06/23/2006 14:27

Sample Receipt

The following samples were received on June 8, 2006 in good condition, unless otherwise noted.

CRA provided revised chain of custodies on June 8. The client ID were revised.

R1: The following client ID's were revised:

Original Report	R1 Report
WS-TMI-SW-Q9-1-060606-MMM-042	WS-TMI-SWQ9-1-060606-MMM-042
WS-TMI-SW-J1-2-060606-MMM-035	WS-TMI-SWJ1-2-060606-MMM-035

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-OS14-060606-EV-038	L28875-1	
WG-TMI-N2-1-060606-MMM-043	L28875-2	
WG-TMI-MS-5-060606-EV-039	L28875-3	
WG-TMI-MS-6-060606-EV-040	L28875-4	
WS-TMI-SWQ9-1-060606-MMM-042	L28875-5	
WS-TMI-SWJ1-2-060606-MMM-035	L28875-6	
WG-TMI-RW-2-060606-JC-044	L28875-7	
WG-TMI-RW-2-060606-JC-045	L28875-8	
WG-TMI-3-060606-JC-034	L28875-9	
WG-TMI-10S-060106-JAS-022	L28875-10	

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 - L28875
EX001-3ESPTMI-06

06/23/2006 14:27

Gamma Spectroscopy

Quality Control

Quality control samples were analyzed as WG4128.

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-OS14-060606-EV-038	L28875-1	WG4128-1

H-3

Quality Control

Quality control samples were analyzed as WG4122,WG4139.

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-110S-053006-JL-067	L28851-11	WG4122-3
WS-TMI-SW-Q9-1-060606-MMM-042	L28875-5	WG4139-3

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

Case Narrative - L28875
EX001-3ESPTMI-06

06/23/2006 14:27

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4142.

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-8S-060106-JC-024	L28870-1	WG4142-3

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

06/08/06 12:17

SR #: SR08767

Client: Exelon

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

Project #: EX001-3ESPTMI-06

LIMS #: L28875

Initiated By: BWILKERSON
Init Date: 06/08/06 Receive Date: 06/08/06

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	

CHAIN OF CUSTODY RECORD

L28875

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: Gamma Emitters	Strontium 89/90	Tritium							REMARKS
	6/6/06	1155	WG-TM1-0514-060606-EV-038	AQU	2	X	X	X							
	6/6/06	1600	WG-TM1-N2-1-060606-MMM-043	AQU	2	X	X	X							22 ml HNO_3
	6/6/06	1405	WG-TM1-MS-5-060606-EV-039	AQU	2	X	X	X							

TOTAL NUMBER OF CONTAINERS | HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① [signature]	DATE: 6/7/06 TIME: 1510	RECEIVED BY: ① [signature]	DATE: 6/7/06 TIME: 1510
RELINQUISHED BY: ② [signature] Amergen	DATE: 6/7/06 TIME: 1511	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: MARTIN MYLET, EVAN VARNAS

RECEIVED FOR LABORATORY BY: B Wilkinson DATE: 6-8-06 TIME: 9:30AM

No CRA 06203

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L28875 R1 7 of 93

L 28875

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: JOHN SKURAT / JASON CLOSE

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: Gamma Emitters	Strontium 89/90	Tritium								REMARKS
	6/6/06	1020	WG-TMI-RW-2-060606-JC-044	AQU	2	X	X	X								
	6/6/06	1525	WG-TMI-RW-2-060606-JC-045	AQU	2	X	X	X								
	6/6/06	1050	WG-TMI-#3-060606-JC-034	AQU	2	X	X	X								
	6/1/06	1535	WG-TMI-105-060106-JCS-022	AQU	2	X	X	X								

TOTAL NUMBER OF CONTAINERS: 8

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
① [signature]	6/7/06	1450	① [signature] O-Amengen	6/7/06	1450
② [signature] O-Amengen	6/7/06	1451	②		
③			③		

METHOD OF SHIPMENT:

WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: JOHN SKURAT, JASON CLOSE

RECEIVED FOR LABORATORY BY: B Wilherson

DATE: 6-8-06 TIME: 9:30AM

No CRA 06202

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L28875 R1 8 OF 93

CHAIN OF CUSTODY RECORD

L28875

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: Cadmium Emissions	Strontium 89/90	Uranium							REMARKS
	6/6/06	1410	WG-TMI-MS-6-060606-EV-040	DGU	2	X	X	X							
	6/6/06		WG-TMI-SWB9-1-060606-MMM-042	RGU	2	X	X	X							19 mL HNO_3
	6/6/06		WG-TMI-SWJT-2-060606-MMM-035	RGU	2	X	X	X							

TOTAL NUMBER OF CONTAINERS | HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① [signature]	DATE: 6/7/06 TIME: 1525	RECEIVED BY: ① [signature]	DATE: 6/7/06 TIME: 1525
RELINQUISHED BY: ② [signature] / AMERGEN	DATE: 6/7/06 TIME: 1526	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: MARTIN MYLET, EVAN VARNAS

RECEIVED FOR LABORATORY BY: B Wilkerson DATE: 6-8-06 TIME: 9:30am

No CRA 06204

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L28875 R1 9 of 93

Charles, Rebecca

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Thursday, June 08, 2006 5:08 PM
To: Charles, Rebecca
Cc: Larry.Walton@exeloncorp.com
Subject: TMI COC revision

Hi Rebecca,

This COC has been revised to change sample IDs -042 and -035 to begin with WS and not WG. Please let me know if you have any questions or concerns about this change.

Thanks,

Kathy Shaw - Chemist

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

L28875

REVISED

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [illegible] PRINTED NAME: [illegible]

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS										REMARKS
	6/6/06	1410	WS-TMI-MS-6-060606-EV-040	AQU	2		Y	Y	Y							1 ml HNO3
	6/6/06	1600	WS-TMI-SWQ9-1-060606-mmm-042	AQU	2		Y	Y	Y							
	6/6/06	1115	WS-TMI-SWJ1-2-060606-mmm-035	AQU	2		Y	Y	Y							
			WS													

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY: ① [illegible]	DATE: 6/7/06 TIME: 1025	RECEIVED BY: ① [illegible]	DATE: 6/7/06 TIME: 1025
RELINQUISHED BY: ②	DATE: TIME:	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: [illegible]

RECEIVED FOR LABORATORY BY: DATE: TIME:

NO CRA 05204

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L 28875

Charles, Rebecca

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Thursday, June 08, 2006 5:08 PM
To: Charles, Rebecca
Cc: Larry.Walton@exeloncorp.com
Subject: TMI COC revision

Hi Rebecca,

This COC has been revised to change sample IDs -042 and -035 to begin with WS and not WG. Please let me know if you have any questions or concerns about this change.

Thanks,

Kathy Shaw - Chemist

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

Thurman, Kim

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Thursday, June 22, 2006 10:02 AM
To: Thurman, Kim
Cc: Larry.Walton@exeloncorp.com
Subject: FW: 45136-29 TMI COCs
Importance: High

Hi Kim,

I sent this to Rebecca yesterday, can you please give me a ETA for completion of these up dates?

Thanks,
Kathy

From: Shaw, Kathy
Sent: Wednesday, June 21, 2006 1:45 PM
To: Rebecca.Charles@tbe.com
Cc: Larry.Walton@exeloncorp.com; 'Joyce.Tomlinson@exeloncorp.com'; Filing
Subject: 45136-29 TMI COCs
Importance: High

Hi Rebecca,

I have attached scanned COCs for changes we made and would like you to up-date in your database. They are addressed by the CRA # in the bottom right corner as follows:

06212 - Add dash between Training-CTR
WG to WS in sample # 041
change L to a 1 in sample # 036

06204 - Remove dash between SWJ
WG to WS in samples # 042 & 035

06202 - Remove "#" in sample #034

03016 - Change all JL to JC

06201 - Change WG to RB in sample # 002

Thanks,

Kathy Shaw - Chemist

Conestoga-Rovers & Associates

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

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [illegible] PRINTED NAME: [illegible]

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS									REMARKS
	[illegible]	1410	MW-TMT-MS-6-060606-EV-040	AQU	2		X	X	X						L28875-4
	[illegible]	1600	MW-TMT-SLG5-1-060606-MMM-042	AQU	2		X	X	X						MMC SNO, -5
	[illegible]	1115	MW-TMT-SW3T2-060606-MMM-035	AQU	2		X	X	X						-6
			WS												

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

RELINQUISHED BY:	DATE: / TIME:	RECEIVED BY:	DATE: / TIME:
① [illegible]	06/06 / 1525	① [illegible]	[illegible] / 1525
② [illegible]	[illegible] / 1525	②	/
③	/	③	/

METHOD OF SHIPMENT:

WAY BILL No.

White –Fully Executed Copy
Yellow –Receiving Laboratory Copy
Pink –Shipper Copy
Goldenrod –Sampler Copy

SAMPLE TEAM: [illegible]

RECEIVED FOR LABORATORY BY:

DATE: TIME:

Nº CRA 05204

RECEIVED JUN 14 2006 CRA INC. PLAINVILLE

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

SAMPLER'S SIGNATURE: [illegible] PRINTED NAME: [illegible]

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS									REMARKS
	6/6/06	1500	MG-TMI-RW-2-060606-JC-044	NGW	2		X	X	X						L28875-7
	6/6/06	1505	MG-TMI-RW-3-060606-JC-045	NGW	2		X	X	X						-8
	6/6/06	1050	MG-TMI-X3-060606-JC-034	NGW	2		X	X	X						-9
	6/6/06	1535	MG-TMI-105-060606-JC-022	NGW	2		X	X	X						-10
			X - remove #												

RECEIVED JUN 14 2006 CRA INC. PLAINVILLE

TOTAL NUMBER OF CONTAINERS: 7

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY ① [illegible]	DATE: 6/6/06 TIME: 1450	RECEIVED BY ① [illegible]	DATE: 6/7/06 TIME: 1450
RELINQUISHED BY ② [illegible]	DATE: 6/6/06 TIME: 1851	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: [illegible]

RECEIVED FOR LABORATORY BY: DATE: TIME:

No CRA 05202

1001 (D) APR 28/97(NF) REV. 0 (F-15)

L28875-R1-16-of-93

Internal Chain of Custody

Internal Chain of Custody

****

Sample # L28875-1 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-1 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-2 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-2 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-3 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-3 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Internal Chain of Custody

****

Sample # L28875-4 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/08/2006 00:00		099999	Sample Custodian

****

Sample # L28875-4 Containernum 2

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

Relinquish Date	Relinquish By	Received By	
06/08/2006 00:00		099999	Sample Custodian

****

Sample # L28875-5 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/08/2006 00:00		099999	Sample Custodian

****

Sample # L28875-5 Containernum 2

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

Relinquish Date	Relinquish By	Received By	
06/08/2006 00:00		099999	Sample Custodian

****

Sample # L28875-6 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/08/2006 00:00		099999	Sample Custodian

****

Sample # L28875-6 Containernum 2

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

Relinquish Date	Relinquish By	Received By	
06/08/2006 00:00		099999	Sample Custodian

****

Internal Chain of Custody

****

Sample # L28875-7 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-7 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-8 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-8 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-9 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28875-9 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

06/15/06 15:36

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L28875-10 Containernum 1

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

Relinquish Date Relinquish By

06/08/2006 00:00

Received By

099999 Sample Custodian

****

Sample # L28875-10 Containernum 2

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

Relinquish Date Relinquish By

06/08/2006 00:00

Received By

099999 Sample Custodian

06/23/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28875

****

L28875-1 **WG** **WG-TMI-OS14-060606-EV-038**

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	SO	06/10/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/14/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/14/06

****

L28875-2 **WG** **WG-TMI-N2-1-060606-MMM-043**

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	SO	06/10/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/14/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28875-3 **WG** **WG-TMI-MS-5-060606-EV-039**

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	SO	06/10/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/14/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28875-4 **WG** **WG-TMI-MS-6-060606-EV-040**

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	SO	06/10/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/14/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28875-5 **WG** **WS-TMI-SWQ9-1-060606-MMM-042**

Process step	Prod	Analyst	Date
Login		KTHURMAN	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/14/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28875

L28875-5 WG WS-TMI-SWQ9-1-060606-MMM-042

Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28875-6 WG WS-TMI-SWJ1-2-060606-MMM-035

Process step	Prod	Analyst	Date
Login		KTHURMAN	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/14/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28875-7 WG WG-TMI-RW-2-060606-JC-044

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/14/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28875-8 WG WG-TMI-RW-2-060606-JC-045

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/14/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28875-9 WG WG-TMI-3-060606-JC-034

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	EJ	06/12/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KPW	06/15/06
Count Room	H-3	KOJ	06/14/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28875-10 WG WG-TMI-10S-060106-JAS-022

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06

06/23/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28875

L28875-10	**WG**	**WG-TMI-10S-060106-JAS-022**		
Aliquot	GELI		DW	06/10/06
Aliquot	H-3		EJ	06/12/06
Aliquot	SR-90	(FAST)	CJF	06/12/06
Count Room	GELI		KPW	06/15/06
Count Room	H-3		KOJ	06/14/06
Count Room	SR-90	(FAST)	KOJ	06/13/06

Analytical Results Summary

Report of Analysis

06/23/06 14:30

L28875

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-OS14-060606-EV-038**
Station:
Description:
LIMS Number: L28875-1

Collect Start: 06/06/2006 11:55
Collect Stop:
Receive Date: 06/08/2006

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	7.04E+01	1.16E+02	**1.83E+02**	pCi/L		10	ml		06/14/06	60	M	U			
TOTAL SR	2018	2.94E-01	6.88E-01	**1.35E+00**	pCi/L		450	ml	06/06/06 11:55	06/14/06	120	M	U			
MN-54	2007	2.26E-01	2.06E+00	**3.40E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U		No	
CO-58	2007	-1.55E+00	2.21E+00	**3.52E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U		No	
FE-59	2007	3.84E+00	4.66E+00	**7.98E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U		No	
CO-60	2007	6.56E-01	2.20E+00	**3.70E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U		No	
ZN-65	2007	5.97E+00	5.68E+00	**8.45E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U		No	
NB-95	2007	4.70E+00	2.27E+00	**4.06E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U*		No	
ZR-95	2007	-3.48E+00	3.89E+00	**6.19E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U		No	
CS-134	2007	6.98E+00	4.57E+00	**4.04E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U*		No	
CS-137	2007	-1.77E+00	2.45E+00	**3.62E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U		No	
BA-140	2007	8.88E-01	1.13E+01	**1.87E+01**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	24000	Sec	U		No	
LA-140	2007	2.33E+00	3.74E+00	**6.35E+00**	pCi/L		3045.75	ml	06/06/06 11:55	06/14/06	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

06/23/06 14:30

L28875

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-N2-1-060606-MMM-043**
Station:
Description:
LIMS Number: L28875-2

Collect Start: 06/06/2006 10:00
Collect Stop:
Receive Date: 06/08/2006

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	-9.53E+01	1.03E+02	**1.80E+02**	pCi/L		10	ml		06/14/06	60	M	U		
TOTAL SR	2018	4.57E-01	8.11E-01	**1.54E+00**	pCi/L		450	ml	06/06/06 10:00	06/13/06	150	M	U		
K-40	2007	**6.66E+01**	3.71E+01	3.43E+01	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	+		Yes
MN-54	2007	-3.99E-01	2.27E+00	**3.68E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
CO-58	2007	-1.51E+00	2.27E+00	**3.60E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
FE-59	2007	6.20E+00	4.58E+00	**8.10E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
CO-60	2007	-9.78E-01	2.20E+00	**3.51E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
ZN-65	2007	1.29E+01	5.41E+00	**8.90E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U*		No
NB-95	2007	2.90E+00	2.47E+00	**4.25E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
ZR-95	2007	-2.58E+00	4.08E+00	**6.53E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
CS-134	2007	1.44E+01	4.18E+00	**5.14E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U*		No
CS-137	2007	4.15E-01	2.37E+00	**3.94E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
BA-140	2007	1.22E+01	1.24E+01	**2.09E+01**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
LA-140	2007	2.54E-01	4.03E+00	**6.72E+00**	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	U		No
AC-228	2007	**2.02E+01**	1.13E+01	1.33E+01	pCi/L		3099.3	ml	06/06/06 10:00	06/14/06	28800	Sec	+		Yes

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

06/23/06 14:30

L28875

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-MS-5-060606-EV-039**
Station:
Description:
LIMS Number: L28875-3

Collect Start: 06/06/2006 14:05
Collect Stop:
Receive Date: 06/08/2006

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	**1.85E+02**	1.20E+02	1.79E+02	pCi/L		10	ml		06/14/06	60	M	+			
TOTAL SR	2018	9.41E-02	8.31E-01	**1.64E+00**	pCi/L		450	ml	06/06/06 14:05	06/13/06	150	M	U			
MN-54	2007	1.15E+00	2.21E+00	**3.68E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
CO-58	2007	-1.63E+00	2.27E+00	**3.55E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
FE-59	2007	2.95E+00	4.55E+00	**7.69E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
CO-60	2007	-1.30E+00	2.70E+00	**3.97E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
ZN-65	2007	7.27E+00	5.62E+00	**8.67E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
NB-95	2007	1.27E+00	2.17E+00	**3.65E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
ZR-95	2007	-4.08E-01	3.92E+00	**6.39E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
CS-134	2007	5.41E+00	3.92E+00	**3.97E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
CS-137	2007	1.76E+00	1.73E+00	**3.39E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		Yes	
BA-140	2007	1.67E+00	1.13E+01	**1.87E+01**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	24000	Sec	U		No	
LA-140	2007	3.50E-01	3.79E+00	**6.27E+00**	pCi/L		3146	ml	06/06/06 14:05	06/14/06	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

06/23/06 14:30

L28875

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-MS-6-060606-EV-040**
Station:
Description:
LIMS Number: L28875-4

Collect Start: 06/06/2006 14:10
Collect Stop:
Receive Date: 06/08/2006

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	1.19E+02	1.17E+02	**1.80E+02**	pCi/L		10	ml		06/14/06	60	M	U		
TOTAL SR	2018	9.01E-01	9.81E-01	**1.82E+00**	pCi/L		450	ml	06/06/06 14:10	06/13/06	150	M	U		
K-40	2007	**1.41E+02**	4.02E+01	4.21E+01	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	+		Yes
MN-54	2007	-7.52E-01	2.77E+00	**4.51E+00**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
CO-58	2007	6.28E-01	3.00E+00	**5.00E+00**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
FE-59	2007	3.18E+00	6.02E+00	**1.02E+01**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
CO-60	2007	7.79E-01	2.79E+00	**4.69E+00**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
ZN-65	2007	9.18E+00	6.31E+00	**1.11E+01**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
NB-95	2007	1.29E+00	2.96E+00	**4.99E+00**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
ZR-95	2007	-1.58E+00	5.39E+00	**8.64E+00**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
CS-134	2007	8.89E+00	5.46E+00	**5.28E+00**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U*		No
CS-137	2007	3.85E+00	2.95E+00	**5.10E+00**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
BA-140	2007	-6.37E+00	1.50E+01	**2.39E+01**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No
LA-140	2007	-8.63E-01	4.81E+00	**7.86E+00**	pCi/L		3071.6	ml	06/06/06 14:10	06/14/06	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

06/23/06 14:30

L28875

Conestoga-Rovers & Associates

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WS-TMI-SWQ9-1-060606-MMM-042**
Station:
Description:
LIMS Number: L28875-5

Collect Start: 06/06/2006 14:10
Collect Stop:
Receive Date: 06/08/2006

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	-9.36E+01	9.66E+01	**1.70E+02**	pCi/L		10	ml		06/14/06	60	M	U		
TOTAL SR	2018	6.87E-01	7.99E-01	**1.49E+00**	pCi/L		450	ml	06/06/06 14:10	06/13/06	150	M	U		
MN-54	2007	1.05E+00	1.77E+00	**3.00E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
CO-58	2007	7.67E-01	1.90E+00	**3.20E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
FE-59	2007	2.46E+00	3.67E+00	**6.29E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
CO-60	2007	9.75E-01	1.80E+00	**3.04E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
ZN-65	2007	5.83E+00	3.95E+00	**6.99E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
NB-95	2007	8.79E-01	1.89E+00	**3.20E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
ZR-95	2007	2.26E+00	3.35E+00	**5.61E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
CS-134	2007	5.14E+00	3.56E+00	**3.50E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
CS-137	2007	-5.76E-04	1.91E+00	**3.13E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
BA-140	2007	3.06E-01	9.63E+00	**1.60E+01**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	24000	Sec	U		No
LA-140	2007	2.24E+00	3.16E+00	**5.43E+00**	pCi/L		3180.3	ml	06/06/06 14:10	06/14/06	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

06/23/06 14:30

L28875

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WS-TMI-SWJ1-2-060606-MMM-035**
Station:
Description:
LIMS Number: L28875-6

Collect Start: 06/06/2006 14:10
Collect Stop:
Receive Date: 06/08/2006

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	-4.05E+01	1.05E+02	**1.78E+02**	pCi/L		10	ml		06/14/06	60	M	U			
TOTAL SR	2018	1.02E+00	8.43E-01	**1.52E+00**	pCi/L		450	ml	06/06/06 14:10	06/13/06	150	M	U			
MN-54	2007	4.53E-01	2.36E+00	**3.87E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
CO-58	2007	2.15E+00	2.49E+00	**4.22E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
FE-59	2007	2.49E+00	4.77E+00	**8.12E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
CO-60	2007	-2.24E-01	2.35E+00	**3.81E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
ZN-65	2007	6.96E+00	5.09E+00	**8.98E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
NB-95	2007	2.54E+00	2.40E+00	**4.11E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
ZR-95	2007	-1.76E+00	4.20E+00	**6.76E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
CS-134	2007	5.15E+00	4.37E+00	**4.14E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
CS-137	2007	1.06E-01	2.41E+00	**4.01E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
BA-140	2007	-1.36E+00	1.17E+01	**1.92E+01**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	Sec	U		No	
LA-140	2007	1.09E+00	3.88E+00	**6.47E+00**	pCi/L		3028.9	ml	06/06/06 14:10	06/14/06	28800	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

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

06/23/06 14:30

L28875

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Kathy Shaw

Sample ID: **WG-TMI-RW-2-060606-JC-044**
Station:
Description:
LIMS Number: L28875-7

Collect Start: 06/06/2006 10:00
Collect Stop:
Receive Date: 06/08/2006

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	**5.66E+03**	6.21E+02	3.81E+02	pCi/L		10	ml		06/14/06	14.4	M	+	High	
TOTAL SR	2018	1.03E+00	7.60E-01	**1.35E+00**	pCi/L		450	ml	06/06/06 10:00	06/13/06	150	M	U		
MN-54	2007	2.99E+00	1.99E+00	**3.62E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
CO-58	2007	1.09E+00	2.16E+00	**3.76E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
FE-59	2007	7.63E-01	3.95E+00	**6.94E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
CO-60	2007	-8.83E-01	2.02E+00	**3.40E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
ZN-65	2007	5.40E+00	4.48E+00	**8.18E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
NB-95	2007	3.52E+00	2.16E+00	**3.94E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
ZR-95	2007	-2.25E+00	3.98E+00	**6.62E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
CS-134	2007	8.64E+00	4.80E+00	**4.40E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U*		No
CS-137	2007	-9.93E-01	2.29E+00	**3.85E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
BA-140	2007	2.83E+00	1.13E+01	**1.91E+01**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	24000	Sec	U		No
LA-140	2007	1.51E+00	3.53E+00	**6.37E+00**	pCi/L		3144	ml	06/06/06 10:00	06/14/06	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

06/23/06 14:30

L28875

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-RW-2-060606-JC-045**
Station:
Description:
LIMS Number: L28875-8

Collect Start: 06/06/2006 15:25
Collect Stop:
Receive Date: 06/08/2006

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	**6.70E+03**	7.23E+02	4.09E+02	pCi/L		10	ml		06/14/06	12.23	M	+	High	
TOTAL SR	2018	4.45E-02	7.90E-01	**1.56E+00**	pCi/L		450	ml	06/06/06 15:25	06/13/06	150	M	U		
MN-54	2007	1.23E+00	2.38E+00	**4.00E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
CO-58	2007	5.98E-02	2.55E+00	**4.19E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
FE-59	2007	4.39E-01	4.85E+00	**7.94E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
CO-60	2007	-1.76E-01	2.29E+00	**3.76E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
ZN-65	2007	9.07E+00	6.54E+00	**9.72E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
NB-95	2007	-8.11E-01	2.65E+00	**4.32E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
ZR-95	2007	-1.08E+00	4.50E+00	**7.35E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
CS-134	2007	1.39E+01	5.92E+00	**5.06E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U*		No
CS-137	2007	-9.44E-02	2.66E+00	**4.40E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
BA-140	2007	2.91E+00	1.37E+01	**2.24E+01**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	28800	Sec	U		No
LA-140	2007	2.21E+00	3.86E+00	**6.56E+00**	pCi/L		3036.2	ml	06/06/06 15:25	06/14/06	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
Yes = Peak identified in gamma spectrum
**** Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Report of Analysis

06/23/06 14:30

L28875

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

EX001-3ESPTMI-06

Kathy Shaw

Sample ID: **WG-TMI-3-060606-JC-034**
Station:
Description:
LIMS Number: L28875-9

Collect Start: 06/06/2006 10:50
Collect Stop:
Receive Date: 06/08/2006

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	1.73E+02	1.22E+02	**1.83E+02**	pCi/L		10	ml		06/14/06	60	M	U			
TOTAL SR	2018	2.39E-01	7.03E-01	**1.36E+00**	pCi/L		450	ml	06/06/06 10:50	06/13/06	150	M	U			
MN-54	2007	3.04E+00	3.11E+00	**5.48E+00**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
CO-58	2007	6.23E-02	3.20E+00	**5.31E+00**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
FE-59	2007	-1.82E+00	6.27E+00	**1.01E+01**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
CO-60	2007	-4.81E-01	3.25E+00	**5.23E+00**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
ZN-65	2007	8.17E+00	7.02E+00	**1.26E+01**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
NB-95	2007	-5.29E-02	3.05E+00	**5.05E+00**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
ZR-95	2007	-1.67E+00	5.56E+00	**8.82E+00**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
CS-134	2007	6.92E+00	5.41E+00	**6.12E+00**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
CS-137	2007	6.76E-01	3.14E+00	**5.22E+00**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
BA-140	2007	6.89E-01	1.72E+01	**2.87E+01**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	Sec	U		No	
LA-140	2007	9.46E-01	5.36E+00	**8.97E+00**	pCi/L		3169.4	ml	06/06/06 10:50	06/15/06	9266	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

06/23/06 14:30

L28875

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-10S-060106-JAS-022**
Station:
Description:
LIMS Number: L28875-10

Collect Start: 06/06/2006 15:35
Collect Stop:
Receive Date: 06/08/2006

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	**1.15E+04**	1.20E+03	5.29E+02	pCi/L		10	ml		06/14/06	7.41	M	+	High	
TOTAL SR	2018	6.59E-02	6.71E-01	**1.32E+00**	pCi/L		450	ml	06/06/06 15:35	06/13/06	150	M	U		
MN-54	2007	-1.30E+00	3.18E+00	**5.04E+00**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
CO-58	2007	-9.87E-01	3.20E+00	**5.11E+00**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
FE-59	2007	1.08E+00	6.83E+00	**1.15E+01**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
CO-60	2007	-4.35E-01	2.99E+00	**4.80E+00**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
ZN-65	2007	5.92E+00	7.29E+00	**1.27E+01**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
NB-95	2007	1.74E+00	3.31E+00	**5.59E+00**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
ZR-95	2007	-5.59E+00	5.68E+00	**8.76E+00**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
CS-134	2007	-3.10E+00	4.42E+00	**5.80E+00**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
CS-137	2007	2.24E+00	3.18E+00	**5.47E+00**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
BA-140	2007	-1.07E+01	1.69E+01	**2.70E+01**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
LA-140	2007	-7.21E-01	5.84E+00	**9.44E+00**	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	U		No
TH-228	2007	**1.08E+01**	5.91E+00	8.99E+00	pCi/L		2990.9	ml	06/06/06 15:35	06/15/06	16120	Sec	+		Yes

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 L28875

6/23/2006 3:59:48PM

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
WG4122-1	H-3	WO	06/13/2006 20:30	< 1.790E-02	pCi/Total	U	P
WG4139-1		WO	06/13/2006 18:05	< 1.690E+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
WG4122-2	H-3	WO	06/13/2006 21:33	5.05E+002	4.950E+02	pCi/Total	98.1	70-130	+	P
Spike ID: 3H-041706-1 Spike conc: 5.05E+002 Spike Vol: 1.00E+000										
WG4139-2		WO	06/13/2006 19:08	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
WG4122-3 L28851-11	H-3	WG	06/13/2006 0:34	< 1.720E+02	< 1.710E+02	pCi/L		<30	**	NE
WG4139-3 L28875-5		WG	06/13/2006 19:27	< 1.700E+02	< 1.840E+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 L28875

6/23/2006 3:59:48PM

TELEDYNE BROWN ENGINEERING
A Teledyne Technologies Company

L28875 **H-3**

Associated Samples for **WG4122**

SAMPLENUM	CLIENTID
L28875-1	WG-TMI-OS14-060606-EV-038
L28875-2	WG-TMI-N2-1-060606-MMM-043
L28875-3	WG-TMI-MS-5-060606-EV-039
L28875-4	WG-TMI-MS-6-060606-EV-040

Associated Samples for **WG4139**

SAMPLENUM	CLIENTID
L28875-5	WS-TMI-SWQ9-1-060606-MMM-042
L28875-6	WS-TMI-SWJ1-2-060606-MMM-035
L28875-7	WG-TMI-RW-2-060606-JC-044
L28875-8	WG-TMI-RW-2-060606-JC-045
L28875-9	WG-TMI-3-060606-JC-034
L28875-10	WG-TMI-10S-060106-JAS-022

+	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 L28875

6/23/2006 3:59:48PM

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
WG4142-1	TOTAL SR	WO	06/13/2006 21:11	< 6.320E-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
WG4142-2	TOTAL SR	WO	06/13/2006 21:11	5.84E+001	6.890E+01	pCi/Total	118.0	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
WG4142-3 L28870-1	TOTAL SR	WG	06/13/2006 21:11	< 1.370E+00	< 1.540E+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 23 2006, 04:14 pm

Work Order: *L28875* 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
L28875-1		H-3		10 ml			0		14-jun-06 04:14	LS7	134	60	1.92	60	.205		SO
WG-TMI-OS14-060606-EV-038																	
Activity: 7.04E+01		Error: 1.16E+02		MDC: 1.83E+02 *													
L28875-2		H-3		10 ml			0		14-jun-06 05:18	LS7	89	60	1.92	60	.208		SO
WG-TMI-N2-1-060606-MMM-043																	
Activity: -9.53E+01		Error: 1.03E+02		MDC: 1.8E+02 *													
L28875-3		H-3		10 ml			0		14-jun-06 06:21	LS7	167	60	1.92	60	.21		SO
WG-TMI-MS-5-060606-EV-039																	
Activity: 1.85E+02 *		Error: 1.2E+02		MDC: 1.79E+02													
L28875-4		H-3		10 ml			0		14-jun-06 07:25	LS7	148	60	1.92	60	.209		SO
WG-TMI-MS-6-060606-EV-040																	
Activity: 1.19E+02		Error: 1.17E+02		MDC: 1.8E+02 *													
L28875-5		H-3		10 ml			0		14-jun-06 08:28	LS7	88	60	1.92	60	.222		EJ
WS-TMI-SWQ9-1-060606-MMM-042																	
Activity: -9.36E+01		Error: 9.66E+01		MDC: 1.7E+02 *													
L28875-6		H-3		10 ml			0		14-jun-06 09:32	LS7	104	60	1.92	60	.211		EJ
WS-TMI-SWJ1-2-060606-MMM-035																	
Activity: -4.05E+01		Error: 1.05E+02		MDC: 1.78E+02 *													
L28875-7		H-3		10 ml			0		14-jun-06 10:35	LS7	392	14.4	1.92	60	.201		EJ
WG-TMI-RW-2-060606-JC-044																	
Activity: 5.66E+03 *		Error: 6.21E+02		MDC: 3.81E+02													
L28875-8		H-3		10 ml			0		14-jun-06 10:53	LS7	393	12.23	1.92	60	.203		EJ
WG-TMI-RW-2-060606-JC-045																	
Activity: 6.7E+03 *		Error: 7.23E+02		MDC: 4.09E+02													
L28875-9		H-3		10 ml			0		14-jun-06 11:08	LS7	163	60	1.92	60	.206		EJ
WG-TMI-3-060606-JC-034																	
Activity: 1.73E+02		Error: 1.22E+02		MDC: 1.83E+02 *													
L28875-10		H-3		10 ml			0		14-jun-06 12:12	LS7	396	7.41	1.92	60	.202		EJ
WG-TMI-10S-060106-JAS-022																	
Activity: 1.15E+04 *		Error: 1.2E+03		MDC: 5.29E+02													

Raw Data Sheet (rawdata)
Jun 23 2006, 04:14 pm

Work Order: *L28875* 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
L28875-1		TOTAL SR	06-jun-06 11:55	450 ml	13-jun-06 14:45		0	77.42	14-jun-06 00:56	Y1A	93	120	279	400	.341	1	CJF
WG-TMI-OS14-060606-EV-038																	
Activity: 2.94E-01 Error: 6.88E-01 MDC: 1.35E+00 *																	
L28875-2		TOTAL SR	06-jun-06 10:00	450 ml	13-jun-06 14:45		0	59.95	13-jun-06 21:05	X2C	118	150	277	400	.344	1	CJF
WG-TMI-N2-1-060606-MMM-043																	
Activity: 4.57E-01 Error: 8.11E-01 MDC: 1.54E+00 *																	
L28875-3		TOTAL SR	06-jun-06 14:05	450 ml	13-jun-06 14:45		0	59.41	13-jun-06 21:05	X2D	118	150	307	400	.343	1	CJF
WG-TMI-MS-5-060606-EV-039																	
Activity: 9.41E-02 Error: 8.31E-01 MDC: 1.64E+00 *																	
L28875-4		TOTAL SR	06-jun-06 14:10	450 ml	13-jun-06 14:45		0	59.41	13-jun-06 21:05	X3A	163	150	363	400	.335	1	CJF
WG-TMI-MS-6-060606-EV-040																	
Activity: 9.01E-01 Error: 9.81E-01 MDC: 1.82E+00 *																	
L28875-5		TOTAL SR	06-jun-06 14:10	450 ml	13-jun-06 14:45		0	66.94	13-jun-06 21:05	X3B	144	150	321	400	.343	1	CJF
WS-TMI-SWQ9-1-060606-MMM-042																	
Activity: 6.87E-01 Error: 7.99E-01 MDC: 1.49E+00 *																	
L28875-6		TOTAL SR	06-jun-06 14:10	450 ml	13-jun-06 14:45		0	62.37	13-jun-06 21:05	X3C	143	150	294	400	.345	1	CJF
WS-TMI-SWJ1-2-060606-MMM-035																	
Activity: 1.02E+00 Error: 8.43E-01 MDC: 1.52E+00 *																	
L28875-7		TOTAL SR	06-jun-06 10:00	450 ml	13-jun-06 14:45		0	66.40	13-jun-06 21:05	X4A	143	150	284	400	.358	1	CJF
WG-TMI-RW-2-060606-JC-044																	
Activity: 1.03E+00 Error: 7.6E-01 MDC: 1.35E+00 *																	
L28875-8		TOTAL SR	06-jun-06 15:25	450 ml	13-jun-06 14:45		0	63.71	13-jun-06 21:05	X4D	129	150	340	400	.353	1	CJF
WG-TMI-RW-2-060606-JC-045																	
Activity: 4.45E-02 Error: 7.9E-01 MDC: 1.56E+00 *																	
L28875-9		TOTAL SR	06-jun-06 10:50	450 ml	13-jun-06 14:45		0	68.82	13-jun-06 21:11	Y1A	113	150	279	400	.341	1	CJF
WG-TMI-3-060606-JC-034																	
Activity: 2.39E-01 Error: 7.03E-01 MDC: 1.36E+00 *																	
L28875-10		TOTAL SR	06-jun-06 15:35	450 ml	13-jun-06 14:45		0	68.55	13-jun-06 21:11	Y1B	107	150	279	400	.351	1	CJF
WG-TMI-10S-060106-JAS-022																	
Activity: 6.59E-02 Error: 6.71E-01 MDC: 1.32E+00 *																	

Sec. Review: Analyst: KW LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 03:02:43.40
TBE13 P-10727B HpGe ********** Aquisition Date/Time: 14-JUN-2006 20:22:17.06

LIMS No., Customer Name, Client ID: WG L28875-1 TMI

Sample ID : 13L28875-1
Sample Type : WG
Quantity : 3.04570E+00 L
Start Channel : 25 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 6-JUN-2006 11:55:00.0
Geometry : 133L082404
BKGFILE : 13BG060306MT
Real Time : 0 06:40:06.84
Live time : 0 06:40:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	53.54	133	592	1.28	107.05	3.50E-01	5.52E-03	32.9	1.99E+00
2	1	63.56*	181	1418	1.97	127.10	7.18E-01	7.55E-03	47.6	3.85E+00
3	3	77.21*	87	502	0.85	154.39	1.25E+00	3.63E-03	46.2	2.70E+00
4	1	92.77*	75	896	1.48	185.51	1.74E+00	3.12E-03	88.9	4.15E+00
5	1	139.81*	169	742	0.96	279.60	2.27E+00	7.03E-03	32.6	7.04E-01
6	1	143.44*	55	681	1.10	286.86	2.28E+00	2.29E-03	92.1	1.70E+00
7	1	185.67*	50	928	1.14	371.31	2.18E+00	2.08E-03	135.7	8.75E-01
8	1	198.35*	89	631	0.86	396.68	2.12E+00	3.69E-03	54.7	2.57E+00
9	1	238.48*	45	519	1.48	476.95	1.94E+00	1.87E-03	112.0	4.37E+00
10	1	295.14*	24	390	1.05	590.27	1.70E+00	9.83E-04	168.9	1.95E+00
11	1	351.76*	170	381	1.30	703.54	1.51E+00	7.09E-03	26.6	9.57E-01
12	1	595.61	146	234	5.24	1191.36	1.02E+00	6.08E-03	24.8	3.07E+00
13	1	609.03*	203	182	1.59	1218.21	1.01E+00	8.46E-03	17.7	1.81E+00
14	1	968.34*	19	130	3.44	1937.19	7.02E-01	7.88E-04	154.2	2.46E+00
15	1	1000.94*	28	56	2.26	2002.44	6.84E-01	1.17E-03	64.5	1.59E+00
16	1	1120.68*	47	115	2.61	2242.08	6.26E-01	1.95E-03	62.8	1.51E+00
17	1	1461.29*	37	87	2.02	2923.87	5.14E-01	1.53E-03	77.6	7.30E-01
18	1	1764.87*	22	56	2.99	3531.68	4.55E-01	9.23E-04	91.5	1.60E+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	37	10.67*	5.142E-01	2.466E+01	2.466E+01	155.20
RA-226	186.21	50	3.28*	2.179E+00	2.587E+01	2.587E+01	271.42
TH-228	238.63	45	44.60*	1.939E+00	1.923E+00	1.939E+00	223.98
	240.98	------	3.95	1.927E+00	------	Line Not Found	------
U-235	143.76	55	10.50*	2.277E+00	8.482E+00	8.482E+00	184.19
	163.35	------	4.70	2.256E+00	------	Line Not Found	------
	185.71	50	54.00	2.179E+00	1.571E+00	1.571E+00	271.42
	205.31	------	4.70	2.093E+00	------	Line Not Found	------
U-238	766.41	------	0.21	8.425E-01	------	Line Not Found	------
	1001.03	28	0.92*	6.839E-01	1.644E+02	1.644E+02	128.94

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 13L28875-1
Acquisition date : 14-JUN-2006 20:22:17

Total number of lines in spectrum	18	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	6	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	2.466E+01	2.466E+01	3.828E+01	155.20	
RA-226	1600.00Y	1.00	2.587E+01	2.587E+01	7.021E+01	271.42	
TH-228	1.91Y	1.01	1.923E+00	1.939E+00	4.344E+00	223.98	
U-235	7.04E+08Y	1.00	8.482E+00	8.482E+00	15.62E+00	184.19	
U-238	4.47E+09Y	1.00	1.644E+02	1.644E+02	2.120E+02	128.94	
			---	---			
	Total Activity :		2.253E+02	2.254E+02			
	Grand Total Activity :		2.253E+02	2.254E+02			

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

Unidentified Energy Lines
Page : 3
Sample ID : 13L28875-1
Acquisition date : 14-JUN-2006 20:22:17

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	53.54	133	592	1.28	107.05	103	8	5.52E-03	65.7	3.50E-01	
1	63.56	181	1418	1.97	127.10	121	14	7.55E-03	95.2	7.18E-01	
3	77.21	87	502	0.85	154.39	147	12	3.63E-03	92.4	1.25E+00	
1	92.77	75	896	1.48	185.51	181	10	3.12E-03	****	1.74E+00	
1	139.81	169	742	0.96	279.60	275	9	7.03E-03	65.2	2.27E+00	
1	198.35	89	631	0.86	396.68	393	8	3.69E-03	****	2.12E+00	
1	295.14	24	390	1.05	590.27	586	8	9.83E-04	****	1.70E+00	
1	351.76	170	381	1.30	703.54	699	11	7.09E-03	53.3	1.51E+00	
1	595.61	146	234	5.24	1191.36	1185	16	6.08E-03	49.6	1.02E+00	
1	609.03	203	182	1.59	1218.21	1213	12	8.46E-03	35.5	1.01E+00	
1	968.34	19	130	3.44	1937.19	1929	15	7.88E-04	****	7.02E-01	T
1	1120.68	47	115	2.61	2242.08	2237	18	1.95E-03	****	6.26E-01	
1	1764.87	22	56	2.99	3531.68	3524	15	9.23E-04	****	4.55E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	18	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	6	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	2.466E+01	2.466E+01	3.828E+01	155.20	
TH-228	1.91Y	1.01	1.923E+00	1.939E+00	4.344E+00	223.98	
U-235	7.04E+08Y	1.00	2.050E+00	2.050E+00	4.114E+00	200.64	
U-238	4.47E+09Y	1.00	1.644E+02	1.644E+02	2.120E+02	128.94	
		Total Activity :	1.930E+02	1.931E+02			

Grand Total Activity : 1.930E+02 1.931E+02

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
U-235	185.71	RA-226	186.21

Combined Activity-MDA Report

---- Identified Nuclides ----

Nuclide	Activity (pCi/L)	Act error	MDA (pCi/L)	MDA error	Act/MDA

K-40	2.466E+01	3.828E+01	3.532E+01	0.000E+00	0.698
TH-228	1.939E+00	4.344E+00	5.829E+00	0.000E+00	0.333
U-235	2.050E+00	4.114E+00	2.595E+01	0.000E+00	0.079
U-238	1.644E+02	2.120E+02	3.433E+02	0.000E+00	0.479

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.333E+00		1.840E+01	2.990E+01	0.000E+00	0.045
NA-24	-2.431E-02		1.347E-02	Half-Life too short		
CR-51	-3.043E+01		2.056E+01	3.286E+01	0.000E+00	-0.926
MN-54	2.261E-01		2.058E+00	3.398E+00	0.000E+00	0.067
CO-57	1.268E+00		1.944E+00	3.228E+00	0.000E+00	0.393
CO-58	-1.550E+00		2.207E+00	3.517E+00	0.000E+00	-0.441
FE-59	3.843E+00		4.661E+00	7.978E+00	0.000E+00	0.482
CO-60	6.564E-01		2.196E+00	3.696E+00	0.000E+00	0.178
ZN-65	5.967E+00		5.682E+00	8.449E+00	0.000E+00	0.706
SE-75	-1.191E+00		2.789E+00	4.496E+00	0.000E+00	-0.265
SR-85	1.882E+01		2.610E+00	5.088E+00	0.000E+00	3.698
Y-88	-1.435E+00		2.389E+00	3.738E+00	0.000E+00	-0.384
NB-94	-6.579E-01		1.984E+00	3.260E+00	0.000E+00	-0.202
NB-95	4.704E+00		2.266E+00	4.058E+00	0.000E+00	1.159
ZR-95	-3.477E+00		3.893E+00	6.191E+00	0.000E+00	-0.562
MO-99	7.328E+01		1.296E+02	2.200E+02	0.000E+00	0.333
RU-103	3.835E+00		2.397E+00	4.191E+00	0.000E+00	0.915
RU-106	1.111E+01		1.922E+01	3.220E+01	0.000E+00	0.345
AG-110m	1.766E-01		2.050E+00	3.353E+00	0.000E+00	0.053
SN-113	1.367E+00		2.716E+00	4.533E+00	0.000E+00	0.301
SB-124	-5.752E-02		4.842E+00	3.540E+00	0.000E+00	-0.016
SB-125	-5.816E+00		5.978E+00	9.441E+00	0.000E+00	-0.616
TE-129M	-1.866E+00		2.718E+01	4.404E+01	0.000E+00	-0.042
I-131	-6.803E-01		4.190E+00	6.884E+00	0.000E+00	-0.099
BA-133	3.946E+00		3.288E+00	4.858E+00	0.000E+00	0.812
CS-134	6.981E+00		4.571E+00	4.042E+00	0.000E+00	1.727
CS-136	-3.179E-01		3.114E+00	5.099E+00	0.000E+00	-0.062
CS-137	-1.767E+00		2.445E+00	3.620E+00	0.000E+00	-0.488
CE-139	2.239E-01		2.061E+00	3.330E+00	0.000E+00	0.067
BA-140	8.881E-01		1.128E+01	1.871E+01	0.000E+00	0.047
LA-140	2.333E+00		3.742E+00	6.351E+00	0.000E+00	0.367
CE-141	6.033E+00		4.461E+00	6.464E+00	0.000E+00	0.933
CE-144	-8.362E+00		1.759E+01	2.421E+01	0.000E+00	-0.345
EU-152	-2.825E+00		7.206E+00	1.033E+01	0.000E+00	-0.273
EU-154	9.548E-01		4.041E+00	6.651E+00	0.000E+00	0.144
RA-226	2.587E+01		7.021E+01	9.018E+01	0.000E+00	0.287
AC-228	-5.916E+00		9.530E+00	1.375E+01	0.000E+00	-0.430
TH-232	-5.900E+00		9.503E+00	1.371E+01	0.000E+00	-0.430
AM-241	2.312E+01		2.158E+01	2.744E+01	0.000E+00	0.843

```
A,13L28875-1       ,06/15/2006 03:02,06/06/2006 11:55,   3.046E+00,WG L28875-1 TM
B,13L28875-1       ,LIBD                ,06/13/2006 09:43,133L082404
C,K-40     ,YES,   2.466E+01,   3.828E+01,   3.532E+01,,    0.698
C,TH-228   ,YES,   1.939E+00,   4.344E+00,   5.829E+00,,    0.333
C,U-235    ,YES,   2.050E+00,   4.114E+00,   2.595E+01,,    0.079
C,U-238    ,YES,   1.644E+02,   2.120E+02,   3.433E+02,,    0.479
C,BE-7     ,NO ,   1.333E+00,   1.840E+01,   2.990E+01,,    0.045
C,CR-51    ,NO ,  -3.043E+01,   2.056E+01,   3.286E+01,,   -0.926
C,MN-54    ,NO ,   2.261E-01,   2.058E+00,   3.398E+00,,    0.067
C,CO-57    ,NO ,   1.268E+00,   1.944E+00,   3.228E+00,,    0.393
C,CO-58    ,NO ,  -1.550E+00,   2.207E+00,   3.517E+00,,   -0.441
C,FE-59    ,NO ,   3.843E+00,   4.661E+00,   7.978E+00,,    0.482
C,CO-60    ,NO ,   6.564E-01,   2.196E+00,   3.696E+00,,    0.178
C,ZN-65    ,NO ,   5.967E+00,   5.682E+00,   8.449E+00,,    0.706
C,SE-75    ,NO ,  -1.191E+00,   2.789E+00,   4.496E+00,,   -0.265
C,SR-85    ,NO ,   1.882E+01,   2.610E+00,   5.088E+00,,    3.698
C,Y-88     ,NO ,  -1.435E+00,   2.389E+00,   3.738E+00,,   -0.384
C,NB-94    ,NO ,  -6.579E-01,   1.984E+00,   3.260E+00,,   -0.202
C,NB-95    ,NO ,   4.704E+00,   2.266E+00,   4.058E+00,,    1.159
C,ZR-95    ,NO ,  -3.477E+00,   3.893E+00,   6.191E+00,,   -0.562
C,MO-99    ,NO ,   7.328E+01,   1.296E+02,   2.200E+02,,    0.333
C,RU-103   ,NO ,   3.835E+00,   2.397E+00,   4.191E+00,,    0.915
C,RU-106   ,NO ,   1.111E+01,   1.922E+01,   3.220E+01,,    0.345
C,AG-110m  ,NO ,   1.766E-01,   2.050E+00,   3.353E+00,,    0.053
C,SN-113   ,NO ,   1.367E+00,   2.716E+00,   4.533E+00,,    0.301
C,SB-124   ,NO ,  -5.752E-02,   4.842E+00,   3.540E+00,,   -0.016
C,SB-125   ,NO ,  -5.816E+00,   5.978E+00,   9.441E+00,,   -0.616
C,TE-129M  ,NO ,  -1.866E+00,   2.718E+01,   4.404E+01,,   -0.042
C,I-131    ,NO ,  -6.803E-01,   4.190E+00,   6.884E+00,,   -0.099
C,BA-133   ,NO ,   3.946E+00,   3.288E+00,   4.858E+00,,    0.812
C,CS-134   ,NO ,   6.981E+00,   4.571E+00,   4.042E+00,,    1.727
C,CS-136   ,NO ,  -3.179E-01,   3.114E+00,   5.099E+00,,   -0.062
C,CS-137   ,NO ,  -1.767E+00,   2.445E+00,   3.620E+00,,   -0.488
C,CE-139   ,NO ,   2.239E-01,   2.061E+00,   3.330E+00,,    0.067
C,BA-140   ,NO ,   8.881E-01,   1.128E+01,   1.871E+01,,    0.047
C,LA-140   ,NO ,   2.333E+00,   3.742E+00,   6.351E+00,,    0.367
C,CE-141   ,NO ,   6.033E+00,   4.461E+00,   6.464E+00,,    0.933
C,CE-144   ,NO ,  -8.362E+00,   1.759E+01,   2.421E+01,,   -0.345
C,EU-152   ,NO ,  -2.825E+00,   7.206E+00,   1.033E+01,,   -0.273
C,EU-154   ,NO ,   9.548E-01,   4.041E+00,   6.651E+00,,    0.144
C,RA-226   ,NO ,   2.587E+01,   7.021E+01,   9.018E+01,,    0.287
C,AC-228   ,NO ,  -5.916E+00,   9.530E+00,   1.375E+01,,   -0.430
C,TH-232   ,NO ,  -5.900E+00,   9.503E+00,   1.371E+01,,   -0.430
C,AM-241   ,NO ,   2.312E+01,   2.158E+01,   2.744E+01,,    0.843
```

Sec. Review: Analyst: KW LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 05:13:47.79
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 14-JUN-2006 21:13:28.51

LIMS No., Customer Name, Client ID: WG L28875-2 TMI

Sample ID : 11L28875-2
Sample Type : WG
Quantity : 3.09930E+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: 6-JUN-2006 10:00:00.0
Geometry : 113L082304
BKGFILE : 11BG060306MT
Real Time : 0 08:00:10.48
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	66.49	310	1736	1.70	131.99	6.93E-01	1.08E-02	24.0	
2	0	92.95*	60	965	1.60	185.06	1.47E+00	2.07E-03	107.2	
3	0	139.98*	186	1195	1.13	279.39	1.90E+00	6.46E-03	39.1	
4	0	185.68*	43	873	1.27	371.05	1.80E+00	1.49E-03	145.3	
5	0	198.17	148	805	1.18	396.08	1.75E+00	5.14E-03	35.5	
6	0	238.48*	123	622	1.18	476.91	1.58E+00	4.27E-03	46.2	
7	0	241.83	157	445	1.74	483.62	1.56E+00	5.44E-03	23.7	
8	0	295.38*	342	662	1.32	590.97	1.37E+00	1.19E-02	17.8	
9	0	351.90*	497	495	1.47	704.27	1.20E+00	1.73E-02	11.5	
10	0	596.08	73	180	1.78	1193.38	8.03E-01	2.53E-03	35.1	
11	0	609.10*	491	222	1.67	1219.45	7.90E-01	1.71E-02	8.6	
12	0	911.81	106	135	1.74	1825.21	5.74E-01	3.67E-03	27.9	
13	0	1120.50*	118	69	2.03	2242.44	4.86E-01	4.09E-03	19.4	
14	0	1460.02*	92	53	2.43	2920.55	3.92E-01	3.19E-03	27.9	
15	0	1709.10	37	44	0.71	3417.49	3.47E-01	1.30E-03	42.2	
16	0	1761.60	143	24	2.26	3522.18	3.39E-01	4.97E-03	11.3	

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	92	10.67*	3.921E-01	6.655E+01	6.655E+01	55.75
RA-226	186.21	43	3.28*	1.799E+00	2.202E+01	2.202E+01	290.53
AC-228	835.50	------	1.75	6.158E-01	------	Line Not Found	------
	911.07	106	27.70*	5.742E-01	2.010E+01	2.016E+01	55.83
TH-228	238.63	123	44.60*	1.577E+00	5.287E+00	5.332E+00	92.50
	240.98	157	3.95	1.564E+00	7.680E+01	7.746E+01	47.47
U-235	143.76	------	10.50*	1.906E+00	------	Line Not Found	------
	163.35	------	4.70	1.876E+00	------	Line Not Found	------
	185.71	43	54.00	1.799E+00	1.337E+00	1.337E+00	290.53
	205.31	------	4.70	1.718E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 11L28875-2

Acquisition date : 14-JUN-2006 21:13:28

Total number of lines in spectrum	16	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	5	31.25%

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	6.655E+01	6.655E+01	3.710E+01	55.75	
RA-226	1600.00Y	1.00	2.202E+01	2.202E+01	6.397E+01	290.53	
AC-228	5.75Y	1.00	2.010E+01	2.016E+01	1.125E+01	55.83	
TH-228	1.91Y	1.01	5.287E+00	5.332E+00	4.932E+00	92.50	
U-235	7.04E+08Y	1.00	1.337E+00	1.337E+00	3.886E+00	290.53	K
			---	---			
	Total Activity :		1.153E+02	1.154E+02			

Grand Total Activity : 1.153E+02 1.154E+02

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

Unidentified Energy Lines
Sample ID : 11L28875-2

Acquisition date : 14-JUN-2006 21:13:28

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	66.49	310	1736	1.70	131.99	128	8	1.08E-02	48.0	6.93E-01	
0	92.95	60	965	1.60	185.06	181	9	2.07E-03	****	1.47E+00	
0	139.98	186	1195	1.13	279.39	274	11	6.46E-03	78.1	1.90E+00	
0	198.17	148	805	1.18	396.08	392	9	5.14E-03	70.9	1.75E+00	
0	295.38	342	662	1.32	590.97	585	14	1.19E-02	35.6	1.37E+00	
0	351.90	497	495	1.47	704.27	697	14	1.73E-02	23.0	1.20E+00	
0	596.08	73	180	1.78	1193.38	1189	9	2.53E-03	70.3	8.03E-01	
0	609.10	491	222	1.67	1219.45	1214	14	1.71E-02	17.2	7.90E-01	
0	1120.50	118	69	2.03	2242.44	2235	14	4.09E-03	38.8	4.86E-01	
0	1709.10	37	44	0.71	3417.49	3408	15	1.30E-03	84.4	3.47E-01	
0	1761.60	143	24	2.26	3522.18	3516	16	4.97E-03	22.7	3.39E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	16	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	5	31.25%

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	6.655E+01	6.655E+01	3.710E+01	55.75	
RA-226	1600.00Y	1.00	2.202E+01	2.202E+01	6.397E+01	290.53	
AC-228	5.75Y	1.00	2.010E+01	2.016E+01	1.125E+01	55.83	
TH-228	1.91Y	1.01	5.287E+00	5.332E+00	4.932E+00	92.50	
		Total Activity :	1.140E+02	1.141E+02			

Grand Total Activity : 1.140E+02 1.141E+02

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	6.655E+01	3.710E+01	3.434E+01	0.000E+00	1.938
RA-226	2.202E+01	6.397E+01	9.401E+01	0.000E+00	0.234
AC-228	2.016E+01	1.125E+01	1.325E+01	0.000E+00	1.522
TH-228	5.332E+00	4.932E+00	6.957E+00	0.000E+00	0.766

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-1.635E+01		2.071E+01	3.287E+01	0.000E+00	-0.497
NA-24	-2.548E-02		1.716E-02	Half-Life too short		
CR-51	-1.614E+00		2.359E+01	3.896E+01	0.000E+00	-0.041
MN-54	-3.992E-01		2.267E+00	3.684E+00	0.000E+00	-0.108
CO-57	-1.646E-01		2.324E+00	3.826E+00	0.000E+00	-0.043
CO-58	-1.509E+00		2.266E+00	3.598E+00	0.000E+00	-0.419
FE-59	6.204E+00		4.576E+00	8.100E+00	0.000E+00	0.766
CO-60	-9.781E-01		2.203E+00	3.505E+00	0.000E+00	-0.279
ZN-65	1.285E+01		5.414E+00	8.899E+00	0.000E+00	1.444
SE-75	-2.413E-01		3.181E+00	5.284E+00	0.000E+00	-0.046
SR-85	1.747E+01		2.859E+00	5.366E+00	0.000E+00	3.255
Y-88	-2.469E-01		2.683E+00	4.389E+00	0.000E+00	-0.056
NB-94	3.729E-01		2.147E+00	3.566E+00	0.000E+00	0.105
NB-95	2.897E+00		2.472E+00	4.253E+00	0.000E+00	0.681
ZR-95	-2.583E+00		4.083E+00	6.526E+00	0.000E+00	-0.396
MO-99	-2.411E+01		1.345E+02	2.197E+02	0.000E+00	-0.110
RU-103	-4.316E-01		2.597E+00	4.207E+00	0.000E+00	-0.103
RU-106	4.128E-01		2.138E+01	3.404E+01	0.000E+00	0.012
AG-110m	-1.299E+00		2.152E+00	3.474E+00	0.000E+00	-0.374
SN-113	6.408E-01		3.003E+00	4.966E+00	0.000E+00	0.129
SB-124	5.820E+00		4.850E+00	4.108E+00	0.000E+00	1.417
SB-125	-1.923E+00		6.458E+00	1.048E+01	0.000E+00	-0.183
TE-129M	1.928E+01		3.058E+01	5.097E+01	0.000E+00	0.378
I-131	1.401E+00		4.785E+00	7.948E+00	0.000E+00	0.176
BA-133	1.557E+01		3.907E+00	6.231E+00	0.000E+00	2.499
CS-134	1.435E+01		4.182E+00	5.137E+00	0.000E+00	2.794
CS-136	-1.808E+00		3.269E+00	5.215E+00	0.000E+00	-0.347
CS-137	4.150E-01		2.367E+00	3.942E+00	0.000E+00	0.105
CE-139	3.600E+00		2.404E+00	4.039E+00	0.000E+00	0.891
BA-140	1.223E+01		1.240E+01	2.087E+01	0.000E+00	0.586
LA-140	2.538E-01		4.030E+00	6.716E+00	0.000E+00	0.038
CE-141	-6.958E-01		5.498E+00	7.633E+00	0.000E+00	-0.091
CE-144	3.955E+00		2.110E+01	2.960E+01	0.000E+00	0.134
EU-152	-7.295E+00		8.601E+00	1.161E+01	0.000E+00	-0.628
EU-154	-6.549E-01		4.805E+00	7.902E+00	0.000E+00	-0.083
TH-232	2.010E+01	+	1.122E+01	1.454E+01	0.000E+00	1.383
U-235	3.791E+01		2.120E+01	3.085E+01	0.000E+00	1.229
U-238	-2.864E+01		2.325E+02	3.842E+02	0.000E+00	-0.075
AM-241	1.896E+01		3.426E+01	4.751E+01	0.000E+00	0.399

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A,11L28875-2        ,06/15/2006 05:13,06/06/2006 10:00,   3.099E+00,WG L28875-2 TM
B,11L28875-2        ,LIBD                  ,06/07/2006 09:40,113L082304
C,K-40     ,YES,   6.655E+01,   3.710E+01,   3.434E+01,,    1.938
C,RA-226   ,YES,   2.202E+01,   6.397E+01,   9.401E+01,,    0.234
C,AC-228   ,YES,   2.016E+01,   1.125E+01,   1.325E+01,,    1.522
C,TH-228   ,YES,   5.332E+00,   4.932E+00,   6.957E+00,,    0.766
C,BE-7     ,NO ,  -1.635E+01,   2.071E+01,   3.287E+01,,   -0.497
C,CR-51    ,NO ,  -1.614E+00,   2.359E+01,   3.896E+01,,   -0.041
C,MN-54    ,NO ,  -3.992E-01,   2.267E+00,   3.684E+00,,   -0.108
C,CO-57    ,NO ,  -1.646E-01,   2.324E+00,   3.826E+00,,   -0.043
C,CO-58    ,NO ,  -1.509E+00,   2.266E+00,   3.598E+00,,   -0.419
C,FE-59    ,NO ,   6.204E+00,   4.576E+00,   8.100E+00,,    0.766
C,CO-60    ,NO ,  -9.781E-01,   2.203E+00,   3.505E+00,,   -0.279
C,ZN-65    ,NO ,   1.285E+01,   5.414E+00,   8.899E+00,,    1.444
C,SE-75    ,NO ,  -2.413E-01,   3.181E+00,   5.284E+00,,   -0.046
C,SR-85    ,NO ,   1.747E+01,   2.859E+00,   5.366E+00,,    3.255
C,Y-88     ,NO ,  -2.469E-01,   2.683E+00,   4.389E+00,,   -0.056
C,NB-94    ,NO ,   3.729E-01,   2.147E+00,   3.566E+00,,    0.105
C,NB-95    ,NO ,   2.897E+00,   2.472E+00,   4.253E+00,,    0.681
C,ZR-95    ,NO ,  -2.583E+00,   4.083E+00,   6.526E+00,,   -0.396
C,MO-99    ,NO ,  -2.411E+01,   1.345E+02,   2.197E+02,,   -0.110
C,RU-103   ,NO ,  -4.316E-01,   2.597E+00,   4.207E+00,,   -0.103
C,RU-106   ,NO ,   4.128E-01,   2.138E+01,   3.404E+01,,    0.012
C,AG-110m  ,NO ,  -1.299E+00,   2.152E+00,   3.474E+00,,   -0.374
C,SN-113   ,NO ,   6.408E-01,   3.003E+00,   4.966E+00,,    0.129
C,SB-124   ,NO ,   5.820E+00,   4.850E+00,   4.108E+00,,    1.417
C,SB-125   ,NO ,  -1.923E+00,   6.458E+00,   1.048E+01,,   -0.183
C,TE-129M  ,NO ,   1.928E+01,   3.058E+01,   5.097E+01,,    0.378
C,I-131    ,NO ,   1.401E+00,   4.785E+00,   7.948E+00,,    0.176
C,BA-133   ,NO ,   1.557E+01,   3.907E+00,   6.231E+00,,    2.499
C,CS-134   ,NO ,   1.435E+01,   4.182E+00,   5.137E+00,,    2.794
C,CS-136   ,NO ,  -1.808E+00,   3.269E+00,   5.215E+00,,   -0.347
C,CS-137   ,NO ,   4.150E-01,   2.367E+00,   3.942E+00,,    0.105
C,CE-139   ,NO ,   3.600E+00,   2.404E+00,   4.039E+00,,    0.891
C,BA-140   ,NO ,   1.223E+01,   1.240E+01,   2.087E+01,,    0.586
C,LA-140   ,NO ,   2.538E-01,   4.030E+00,   6.716E+00,,    0.038
C,CE-141   ,NO ,  -6.958E-01,   5.498E+00,   7.633E+00,,   -0.091
C,CE-144   ,NO ,   3.955E+00,   2.110E+01,   2.960E+01,,    0.134
C,EU-152   ,NO ,  -7.295E+00,   8.601E+00,   1.161E+01,,   -0.628
C,EU-154   ,NO ,  -6.549E-01,   4.805E+00,   7.902E+00,,   -0.083
C,TH-232   ,NO ,   2.010E+01,   1.122E+01,   1.454E+01,,    1.383
C,U-235    ,NO ,   3.791E+01,   2.120E+01,   3.085E+01,,    1.229
C,U-238    ,NO ,  -2.864E+01,   2.325E+02,   3.842E+02,,   -0.075
C,AM-241   ,NO ,   1.896E+01,   3.426E+01,   4.751E+01,,    0.399
```

Sec. Review: Analyst: LIMS:

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 04:02:53.96
TBE04 P-40312B HpGe ********** Aquisition Date/Time: 14-JUN-2006 21:22:38.53

LIMS No., Customer Name, Client ID: WG L28875-3 TMI

Sample ID : 04L28875-3
Sample Type : WG
Quantity : 3.14600E+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: 6-JUN-2006 14:05:00.0
Geometry : 043L082004
BKGFILE : 04BG060306MT
Real Time : 0 06:40:04.10
Live time : 0 06:40:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.22*	223	730	1.51	133.11	6.60E-01	9.27E-03	23.9	1.17E+00
2	1	84.91*	3	1014	3.59	170.46	1.32E+00	1.41E-04	*****	3.59E+00
3	1	139.97	143	468	1.02	280.53	2.04E+00	5.97E-03	26.5	4.08E-01
4	1	186.23*	14	531	1.94	373.01	1.92E+00	5.81E-04	352.3	2.18E+00
5	1	198.47*	84	383	0.98	397.48	1.86E+00	3.51E-03	48.6	5.32E-01
6	1	238.73*	50	445	0.79	477.95	1.68E+00	2.07E-03	87.9	8.91E-01
7	1	251.79	121	392	5.33	504.07	1.62E+00	5.05E-03	34.1	3.00E+00
8	1	295.44	175	400	1.98	591.32	1.45E+00	7.31E-03	24.6	5.71E-01
9	1	352.25*	69	321	1.42	704.90	1.28E+00	2.86E-03	58.1	2.03E+00
10	1	583.67*	66	147	2.67	1167.56	8.77E-01	2.77E-03	41.2	6.53E+00
11	1	595.93	75	159	2.26	1192.07	8.63E-01	3.13E-03	34.7	2.48E+00
12	1	609.21*	126	263	1.74	1218.63	8.49E-01	5.25E-03	34.5	1.75E+00
13	1	661.68	33	79	1.23	1323.53	7.97E-01	1.39E-03	49.0	1.17E+01
14	1	911.60*	25	52	1.30	1823.23	6.21E-01	1.06E-03	70.2	9.71E-01
15	1	1120.03*	28	80	2.02	2239.99	5.27E-01	1.19E-03	75.2	1.11E+00
16	1	1298.51	33	29	2.16	2596.90	4.70E-01	1.37E-03	35.4	5.29E-01
17	1	1460.98*	35	49	2.54	2921.81	4.30E-01	1.47E-03	66.8	1.27E+00
18	1	1764.02*	37	26	2.90	3527.88	3.77E-01	1.53E-03	41.1	8.08E-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	35	10.67*	4.295E-01	2.749E+01	2.749E+01	133.69
RA-226	186.21	14	3.28*	1.920E+00	7.923E+00	7.923E+00	704.68
AC-228	835.50	------	1.75	6.649E-01	------	Line Not Found	------
	911.07	25	27.70*	6.209E-01	5.291E+00	5.306E+00	140.32
TH-228	238.63	50	44.60*	1.679E+00	2.379E+00	2.399E+00	175.71
	240.98	------	3.95	1.669E+00	------	Line Not Found	------
TH-232	583.14	66	30.25	8.767E-01	8.971E+00	8.971E+00	82.44
	911.07	25	27.70*	6.209E-01	5.291E+00	5.291E+00	140.32
	969.11	------	16.60	5.916E-01	------	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	14	54.00	1.920E+00	4.812E-01	4.812E-01	704.68

205.31	------	4.70	1.833E+00	------	Line Not Found	------

Nuclide Type: fission

Nuclide	Energy	Area	%Abn	%Eff	Uncorrected pCi/L	Decay Corr pCi/L	2-Sigma %Error
CS-137	661.65	33	85.12*	7.967E-01	1.761E+00	1.762E+00	97.98

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 04L28875-3
Acquisition date : 14-JUN-2006 21:22:38

Total number of lines in spectrum	18	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	6	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	2.749E+01	2.749E+01	3.675E+01	133.69	
RA-226	1600.00Y	1.00	7.923E+00	7.923E+00	55.83E+00	704.68	
AC-228	5.75Y	1.00	5.291E+00	5.306E+00	7.446E+00	140.32	
TH-228	1.91Y	1.01	2.379E+00	2.399E+00	4.215E+00	175.71	
TH-232	1.41E+10Y	1.00	5.291E+00	5.291E+00	7.425E+00	140.32	
U-235	7.04E+08Y	1.00	4.812E-01	4.812E-01	33.91E-01	704.68	K
			---	---			
	Total Activity :		4.885E+01	4.889E+01			

Nuclide Type : fission

Nuclide	Hlife	Decay	Uncorrected pCi/L	Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.17Y	1.00	1.761E+00	1.762E+00	1.726E+00	97.98	
			---	---			
	Total Activity :		1.761E+00	1.762E+00			

Grand Total Activity : 5.062E+01 5.065E+01

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

Unidentified Energy Lines
Page : 3
Sample ID : 04L28875-3
Acquisition date : 14-JUN-2006 21:22:38

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.22	223	730	1.51	133.11	129	9	9.27E-03	47.9	6.60E-01	
1	84.91	3	1014	3.59	170.46	164	15	1.41E-04	****	1.32E+00	
1	139.97	143	468	1.02	280.53	277	7	5.97E-03	52.9	2.04E+00	
1	198.47	84	383	0.98	397.48	394	7	3.51E-03	97.2	1.86E+00	
1	251.79	121	392	5.33	504.07	499	12	5.05E-03	68.2	1.62E+00	
1	295.44	175	400	1.98	591.32	587	13	7.31E-03	49.2	1.45E+00	
1	352.25	69	321	1.42	704.90	700	11	2.86E-03	****	1.28E+00	
1	595.93	75	159	2.26	1192.07	1187	11	3.13E-03	69.3	8.63E-01	
1	609.21	126	263	1.74	1218.63	1212	18	5.25E-03	69.0	8.49E-01	
1	1120.03	28	80	2.02	2239.99	2232	14	1.19E-03	****	5.27E-01	
1	1298.51	33	29	2.16	2596.90	2593	10	1.37E-03	70.9	4.70E-01	
1	1764.02	37	26	2.90	3527.88	3520	15	1.53E-03	82.3	3.77E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	18	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	6	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	2.749E+01	2.749E+01	3.675E+01	133.69	
RA-226	1600.00Y	1.00	7.923E+00	7.923E+00	55.83E+00	704.68	
TH-228	1.91Y	1.01	2.379E+00	2.399E+00	4.215E+00	175.71	
TH-232	1.41E+10Y	1.00	7.138E+00	7.138E+00	5.240E+00	73.40	
			---	---			
	Total Activity :		4.493E+01	4.495E+01			

Nuclide Type : fission

Nuclide	Hlife	Decay	Wtd Mean Uncorrected pCi/L	Wtd Mean Decay Corr pCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CS-137	30.17Y	1.00	1.761E+00	1.762E+00	1.726E+00	97.98	
			---	---			
	Total Activity :		1.761E+00	1.762E+00			

Grand Total Activity : 4.669E+01 4.671E+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
K-40	2.749E+01	3.675E+01	3.499E+01	0.000E+00	0.786
CS-137	1.762E+00	1.726E+00	3.388E+00	0.000E+00	0.520
RA-226	7.923E+00	5.583E+01	7.595E+01	0.000E+00	0.104
TH-228	2.399E+00	4.215E+00	5.849E+00	0.000E+00	0.410
TH-232	7.138E+00	5.240E+00	1.207E+01	0.000E+00	0.591

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-2.671E-01		1.877E+01	3.103E+01	0.000E+00	-0.009
NA-24	-3.060E-02		1.296E-02	Half-Life too short		
CR-51	-1.347E+01		2.043E+01	3.306E+01	0.000E+00	-0.407
MN-54	1.154E+00		2.206E+00	3.681E+00	0.000E+00	0.314
CO-57	-5.067E-01		1.856E+00	3.006E+00	0.000E+00	-0.169
CO-58	-1.634E+00		2.268E+00	3.553E+00	0.000E+00	-0.460
FE-59	2.952E+00		4.552E+00	7.693E+00	0.000E+00	0.384
CO-60	-1.298E+00		2.696E+00	3.972E+00	0.000E+00	-0.327
ZN-65	7.272E+00		5.617E+00	8.670E+00	0.000E+00	0.839
SE-75	1.024E-01		2.836E+00	4.595E+00	0.000E+00	0.022
SR-85	1.929E+01		2.709E+00	5.327E+00	0.000E+00	3.621
Y-88	-2.982E-01		2.483E+00	4.056E+00	0.000E+00	-0.074
NB-94	-6.531E-01		2.067E+00	3.358E+00	0.000E+00	-0.195
NB-95	1.273E+00		2.165E+00	3.650E+00	0.000E+00	0.349
ZR-95	-4.075E-01		3.919E+00	6.387E+00	0.000E+00	-0.064
MO-99	5.584E+01		1.339E+02	2.242E+02	0.000E+00	0.249
RU-103	2.966E+00		2.400E+00	4.144E+00	0.000E+00	0.716
RU-106	-1.090E+01		2.108E+01	3.094E+01	0.000E+00	-0.352
AG-110m	1.002E+00		2.332E+00	3.363E+00	0.000E+00	0.298
SN-113	-2.252E+00		2.734E+00	4.316E+00	0.000E+00	-0.522
SB-124	4.779E-02		5.118E+00	3.691E+00	0.000E+00	0.013
SB-125	-2.459E+00		5.985E+00	9.834E+00	0.000E+00	-0.250
TE-129M	1.712E+01		2.621E+01	4.456E+01	0.000E+00	0.384
I-131	-3.674E+00		4.096E+00	6.487E+00	0.000E+00	-0.566
BA-133	8.125E+00		3.312E+00	5.152E+00	0.000E+00	1.577
CS-134	5.409E+00		3.924E+00	3.973E+00	0.000E+00	1.361
CS-136	5.221E-01		3.239E+00	5.318E+00	0.000E+00	0.098
CE-139	-1.568E+00		1.948E+00	3.186E+00	0.000E+00	-0.492
BA-140	1.665E+00		1.131E+01	1.865E+01	0.000E+00	0.089
LA-140	3.499E-01		3.794E+00	6.269E+00	0.000E+00	0.056
CE-141	2.559E+00		4.324E+00	6.095E+00	0.000E+00	0.420
CE-144	-1.434E+01		1.621E+01	2.278E+01	0.000E+00	-0.629
EU-152	-9.903E+00		7.492E+00	1.015E+01	0.000E+00	-0.975
EU-154	-8.075E-01		3.855E+00	6.253E+00	0.000E+00	-0.129
AC-228	5.306E+00		7.446E+00	1.429E+01	0.000E+00	0.371
U-235	-1.620E+00		1.680E+01	2.311E+01	0.000E+00	-0.070
U-238	9.661E+01		2.318E+02	3.893E+02	0.000E+00	0.248
AM-241	-6.383E+00		2.029E+01	3.047E+01	0.000E+00	-0.209

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A,04L28875-3        ,06/15/2006 04:02,06/06/2006 14:05,   3.146E+00,WG L28875-3 TM
B,04L28875-3        ,LIBD                ,06/13/2006 09:42,043L082004
C,K-40     ,YES,   2.749E+01,   3.675E+01,   3.499E+01,,    0.786
C,CS-137   ,YES,   1.762E+00,   1.726E+00,   3.388E+00,,    0.520
C,RA-226   ,YES,   7.923E+00,   5.583E+01,   7.595E+01,,    0.104
C,TH-228   ,YES,   2.399E+00,   4.215E+00,   5.849E+00,,    0.410
C,TH-232   ,YES,   7.138E+00,   5.240E+00,   1.207E+01,,    0.591
C,BE-7     ,NO ,  -2.671E-01,   1.877E+01,   3.103E+01,,   -0.009
C,CR-51    ,NO ,  -1.347E+01,   2.043E+01,   3.306E+01,,   -0.407
C,MN-54    ,NO ,   1.154E+00,   2.206E+00,   3.681E+00,,    0.314
C,CO-57    ,NO ,  -5.067E-01,   1.856E+00,   3.006E+00,,   -0.169
C,CO-58    ,NO ,  -1.634E+00,   2.268E+00,   3.553E+00,,   -0.460
C,FE-59    ,NO ,   2.952E+00,   4.552E+00,   7.693E+00,,    0.384
C,CO-60    ,NO ,  -1.298E+00,   2.696E+00,   3.972E+00,,   -0.327
C,ZN-65    ,NO ,   7.272E+00,   5.617E+00,   8.670E+00,,    0.839
C,SE-75    ,NO ,   1.024E-01,   2.836E+00,   4.595E+00,,    0.022
C,SR-85    ,NO ,   1.929E+01,   2.709E+00,   5.327E+00,,    3.621
C,Y-88     ,NO ,  -2.982E-01,   2.483E+00,   4.056E+00,,   -0.074
C,NB-94    ,NO ,  -6.531E-01,   2.067E+00,   3.358E+00,,   -0.195
C,NB-95    ,NO ,   1.273E+00,   2.165E+00,   3.650E+00,,    0.349
C,ZR-95    ,NO ,  -4.075E-01,   3.919E+00,   6.387E+00,,   -0.064
C,MO-99    ,NO ,   5.584E+01,   1.339E+02,   2.242E+02,,    0.249
C,RU-103   ,NO ,   2.966E+00,   2.400E+00,   4.144E+00,,    0.716
C,RU-106   ,NO ,  -1.090E+01,   2.108E+01,   3.094E+01,,   -0.352
C,AG-110m  ,NO ,   1.002E+00,   2.332E+00,   3.363E+00,,    0.298
C,SN-113   ,NO ,  -2.252E+00,   2.734E+00,   4.316E+00,,   -0.522
C,SB-124   ,NO ,   4.779E-02,   5.118E+00,   3.691E+00,,    0.013
C,SB-125   ,NO ,  -2.459E+00,   5.985E+00,   9.834E+00,,   -0.250
C,TE-129M  ,NO ,   1.712E+01,   2.621E+01,   4.456E+01,,    0.384
C,I-131    ,NO ,  -3.674E+00,   4.096E+00,   6.487E+00,,   -0.566
C,BA-133   ,NO ,   8.125E+00,   3.312E+00,   5.152E+00,,    1.577
C,CS-134   ,NO ,   5.409E+00,   3.924E+00,   3.973E+00,,    1.361
C,CS-136   ,NO ,   5.221E-01,   3.239E+00,   5.318E+00,,    0.098
C,CE-139   ,NO ,  -1.568E+00,   1.948E+00,   3.186E+00,,   -0.492
C,BA-140   ,NO ,   1.665E+00,   1.131E+01,   1.865E+01,,    0.089
C,LA-140   ,NO ,   3.499E-01,   3.794E+00,   6.269E+00,,    0.056
C,CE-141   ,NO ,   2.559E+00,   4.324E+00,   6.095E+00,,    0.420
C,CE-144   ,NO ,  -1.434E+01,   1.621E+01,   2.278E+01,,   -0.629
C,EU-152   ,NO ,  -9.903E+00,   7.492E+00,   1.015E+01,,   -0.975
C,EU-154   ,NO ,  -8.075E-01,   3.855E+00,   6.253E+00,,   -0.129
C,AC-228   ,NO ,   5.306E+00,   7.446E+00,   1.429E+01,,    0.371
C,U-235    ,NO ,  -1.620E+00,   1.680E+01,   2.311E+01,,   -0.070
C,U-238    ,NO ,   9.661E+01,   2.318E+02,   3.893E+02,,    0.248
C,AM-241   ,NO ,  -6.383E+00,   2.029E+01,   3.047E+01,,   -0.209
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Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 05:27:47.82
TBE15 P-10635B HpGe ********** Aquisition Date/Time: 14-JUN-2006 21:27:39.44

LIMS No., Customer Name, Client ID: WG L28875-4 TMI

Sample ID : 15L28875-4
Sample Type : WG
Quantity : 3.07160E+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: 6-JUN-2006 14:10:00.0
Geometry : 153L082604
BKGFILE : 15BG060306MT
Real Time : 0 08:00:02.96
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	139.91	172	724	1.16	267.98	1.66E+00	5.96E-03	28.1	1.07E+00
2	1	198.30	184	722	1.80	385.37	1.54E+00	6.40E-03	28.3	1.85E+00
3	1	351.38*	97	352	2.10	693.10	1.02E+00	3.37E-03	44.9	2.52E+00
4	1	595.43	75	178	1.85	1183.50	6.55E-01	2.60E-03	35.6	9.68E-01
5	1	608.76	186	210	1.91	1210.29	6.43E-01	6.46E-03	18.1	5.33E-01
6	1	1119.96	56	81	2.23	2236.86	3.97E-01	1.94E-03	34.3	1.90E+00
7	1	1460.65*	159	55	2.05	2920.51	3.23E-01	5.52E-03	14.2	1.51E+00
8	1	1850.42	142	20	1.50	3702.18	2.67E-01	4.93E-03	8.7	7.67E+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	159	10.67*	3.226E-01	1.411E+02	1.411E+02	28.46

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 15L28875-4

Acquisition date : 14-JUN-2006 21:27:39

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	1.411E+02	1.411E+02	0.402E+02	28.46	
		Total Activity :	1.411E+02	1.411E+02			
		Grand Total Activity :	1.411E+02	1.411E+02			

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

Unidentified Energy Lines
Sample ID : 15L28875-4

Acquisition date : 14-JUN-2006 21:27:39

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	139.91	172	724	1.16	267.98	264	8	5.96E-03	56.2	1.66E+00	
1	198.30	184	722	1.80	385.37	381	10	6.40E-03	56.7	1.54E+00	
1	351.38	97	352	2.10	693.10	687	12	3.37E-03	89.8	1.02E+00	
1	595.43	75	178	1.85	1183.50	1179	10	2.60E-03	71.1	6.55E-01	
1	608.76	186	210	1.91	1210.29	1203	14	6.46E-03	36.1	6.43E-01	
1	1119.96	56	81	2.23	2236.86	2230	12	1.94E-03	68.6	3.97E-01	
1	1850.42	142	20	1.50	3702.18	3695	17	4.93E-03	17.3	2.67E-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	1.411E+02	1.411E+02	0.402E+02	28.46	
		Total Activity :	1.411E+02	1.411E+02			
		Grand Total Activity :	1.411E+02	1.411E+02			

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	1.411E+02	4.015E+01	4.210E+01	0.000E+00	3.352

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-5.129E+00		2.475E+01	4.029E+01	0.000E+00	-0.127
NA-24	2.899E-03		1.640E-02	Half-Life too short		
CR-51	-1.506E+01		2.691E+01	4.343E+01	0.000E+00	-0.347
MN-54	-7.521E-01		2.765E+00	4.506E+00	0.000E+00	-0.167

CO-57	4.753E-01	2.643E+00	4.133E+00	0.000E+00	0.115
CO-58	6.278E-01	2.998E+00	5.000E+00	0.000E+00	0.126
FE-59	3.183E+00	6.016E+00	1.017E+01	0.000E+00	0.313
CO-60	7.790E-01	2.791E+00	4.691E+00	0.000E+00	0.166
ZN-65	9.181E+00	6.309E+00	1.110E+01	0.000E+00	0.827
SE-75	-1.445E+00	3.513E+00	5.764E+00	0.000E+00	-0.251
SR-85	2.130E+01	3.300E+00	6.296E+00	0.000E+00	3.382
Y-88	2.360E-01	3.407E+00	5.019E+00	0.000E+00	0.047
NB-94	4.281E-01	2.650E+00	4.360E+00	0.000E+00	0.098
NB-95	1.288E+00	2.955E+00	4.992E+00	0.000E+00	0.258
ZR-95	-1.581E+00	5.386E+00	8.643E+00	0.000E+00	-0.183
MO-99	2.330E+01	1.735E+02	2.842E+02	0.000E+00	0.082
RU-103	2.518E+00	3.239E+00	5.431E+00	0.000E+00	0.464
RU-106	4.042E+00	2.547E+01	4.127E+01	0.000E+00	0.098
AG-110m	-1.807E-01	2.784E+00	4.562E+00	0.000E+00	-0.040
SN-113	-3.800E+00	3.455E+00	5.549E+00	0.000E+00	-0.685
SB-124	4.036E+00	6.826E+00	5.064E+00	0.000E+00	0.797
SB-125	3.221E+00	7.520E+00	1.259E+01	0.000E+00	0.256
TE-129M	1.397E+01	3.476E+01	5.791E+01	0.000E+00	0.241
I-131	3.290E-01	5.467E+00	8.900E+00	0.000E+00	0.037
BA-133	5.648E+00	4.219E+00	6.125E+00	0.000E+00	0.922
CS-134	8.885E+00	5.455E+00	5.280E+00	0.000E+00	1.683
CS-136	-4.036E-01	4.167E+00	6.854E+00	0.000E+00	-0.059
CS-137	3.853E+00	2.954E+00	5.101E+00	0.000E+00	0.755
CE-139	1.999E+00	2.450E+00	4.105E+00	0.000E+00	0.487
BA-140	-6.374E+00	1.495E+01	2.393E+01	0.000E+00	-0.266
LA-140	-8.627E-01	4.805E+00	7.859E+00	0.000E+00	-0.110
CE-141	1.801E+00	5.618E+00	8.007E+00	0.000E+00	0.225
CE-144	1.154E+01	2.159E+01	3.110E+01	0.000E+00	0.371
EU-152	-2.053E+00	9.611E+00	1.309E+01	0.000E+00	-0.157
EU-154	-7.082E-01	5.430E+00	8.430E+00	0.000E+00	-0.084
RA-226	5.906E+00	6.683E+01	1.023E+02	0.000E+00	0.058
AC-228	9.023E+00	9.808E+00	1.678E+01	0.000E+00	0.538
TH-228	3.663E+00	5.116E+00	8.004E+00	0.000E+00	0.458
TH-232	8.998E+00	9.781E+00	1.673E+01	0.000E+00	0.538
U-235	1.445E+01	2.178E+01	3.135E+01	0.000E+00	0.461
U-238	7.984E+01	2.998E+02	5.040E+02	0.000E+00	0.158
AM-241	-5.331E+01	2.855E+01	4.597E+01	0.000E+00	-1.160

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A,15L28875-4       ,06/15/2006 05:27,06/06/2006 14:10,   3.072E+00,WG L28875-4 TM
B,15L28875-4       ,LIBD                ,06/14/2006 10:45,153L082604
C,K-40     ,YES,   1.411E+02,   4.015E+01,   4.210E+01,,    3.352
C,BE-7     ,NO ,  -5.129E+00,   2.475E+01,   4.029E+01,,   -0.127
C,CR-51    ,NO ,  -1.506E+01,   2.691E+01,   4.343E+01,,   -0.347
C,MN-54    ,NO ,  -7.521E-01,   2.765E+00,   4.506E+00,,   -0.167
C,CO-57    ,NO ,   4.753E-01,   2.643E+00,   4.133E+00,,    0.115
C,CO-58    ,NO ,   6.278E-01,   2.998E+00,   5.000E+00,,    0.126
C,FE-59    ,NO ,   3.183E+00,   6.016E+00,   1.017E+01,,    0.313
C,CO-60    ,NO ,   7.790E-01,   2.791E+00,   4.691E+00,,    0.166
C,ZN-65    ,NO ,   9.181E+00,   6.309E+00,   1.110E+01,,    0.827
C,SE-75    ,NO ,  -1.445E+00,   3.513E+00,   5.764E+00,,   -0.251
C,SR-85    ,NO ,   2.130E+01,   3.300E+00,   6.296E+00,,    3.382
C,Y-88     ,NO ,   2.360E-01,   3.407E+00,   5.019E+00,,    0.047
C,NB-94    ,NO ,   4.281E-01,   2.650E+00,   4.360E+00,,    0.098
C,NB-95    ,NO ,   1.288E+00,   2.955E+00,   4.992E+00,,    0.258
C,ZR-95    ,NO ,  -1.581E+00,   5.386E+00,   8.643E+00,,   -0.183
C,MO-99    ,NO ,   2.330E+01,   1.735E+02,   2.842E+02,,    0.082
C,RU-103   ,NO ,   2.518E+00,   3.239E+00,   5.431E+00,,    0.464
C,RU-106   ,NO ,   4.042E+00,   2.547E+01,   4.127E+01,,    0.098
C,AG-110m  ,NO ,  -1.807E-01,   2.784E+00,   4.562E+00,,   -0.040
C,SN-113   ,NO ,  -3.800E+00,   3.455E+00,   5.549E+00,,   -0.685
C,SB-124   ,NO ,   4.036E+00,   6.826E+00,   5.064E+00,,    0.797
C,SB-125   ,NO ,   3.221E+00,   7.520E+00,   1.259E+01,,    0.256
C,TE-129M  ,NO ,   1.397E+01,   3.476E+01,   5.791E+01,,    0.241
C,I-131    ,NO ,   3.290E-01,   5.467E+00,   8.900E+00,,    0.037
C,BA-133   ,NO ,   5.648E+00,   4.219E+00,   6.125E+00,,    0.922
C,CS-134   ,NO ,   8.885E+00,   5.455E+00,   5.280E+00,,    1.683
C,CS-136   ,NO ,  -4.036E-01,   4.167E+00,   6.854E+00,,   -0.059
C,CS-137   ,NO ,   3.853E+00,   2.954E+00,   5.101E+00,,    0.755
C,CE-139   ,NO ,   1.999E+00,   2.450E+00,   4.105E+00,,    0.487
C,BA-140   ,NO ,  -6.374E+00,   1.495E+01,   2.393E+01,,   -0.266
C,LA-140   ,NO ,  -8.627E-01,   4.805E+00,   7.859E+00,,   -0.110
C,CE-141   ,NO ,   1.801E+00,   5.618E+00,   8.007E+00,,    0.225
C,CE-144   ,NO ,   1.154E+01,   2.159E+01,   3.110E+01,,    0.371
C,EU-152   ,NO ,  -2.053E+00,   9.611E+00,   1.309E+01,,   -0.157
C,EU-154   ,NO ,  -7.082E-01,   5.430E+00,   8.430E+00,,   -0.084
C,RA-226   ,NO ,   5.906E+00,   6.683E+01,   1.023E+02,,    0.058
C,AC-228   ,NO ,   9.023E+00,   9.808E+00,   1.678E+01,,    0.538
C,TH-228   ,NO ,   3.663E+00,   5.116E+00,   8.004E+00,,    0.458
C,TH-232   ,NO ,   8.998E+00,   9.781E+00,   1.673E+01,,    0.538
C,U-235    ,NO ,   1.445E+01,   2.178E+01,   3.135E+01,,    0.461
C,U-238    ,NO ,   7.984E+01,   2.998E+02,   5.040E+02,,    0.158
C,AM-241   ,NO ,  -5.331E+01,   2.855E+01,   4.597E+01,,   -1.160
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Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 04:15:45.97
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 14-JUN-2006 21:35:30.27

LIMS No., Customer Name, Client ID: WG L28875-5 TMI

Sample ID : 07L28875-5
Sample Type : WG
Quantity : 3.18030E+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: 6-JUN-2006 14:10:00.0
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 06:40:04.58
Live time : 0 06:40:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.47*	165	995	0.99	133.52	8.11E-01	6.89E-03	39.3	1.05E+00
2	1	139.79*	318	756	2.24	280.26	2.36E+00	1.32E-02	18.6	5.52E+00
3	1	175.10	78	467	1.82	350.94	2.33E+00	3.26E-03	49.8	2.13E+00
4	1	198.45*	187	560	1.71	397.68	2.25E+00	7.79E-03	28.5	2.62E+00
5	1	595.87	101	177	1.79	1192.91	1.10E+00	4.20E-03	27.5	1.80E+00
6	1	609.43*	133	175	1.72	1220.04	1.09E+00	5.56E-03	26.3	7.51E-01

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

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28875-5

Acquisition date : 14-JUN-2006 21:35:30

Total number of lines in spectrum	6	
Number of unidentified lines	6	
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 : 07L28875-5

Acquisition date : 14-JUN-2006 21:35:30

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.47	165	995	0.99	133.52	130	11	6.89E-03	78.6	8.11E-01	
1	139.79	318	756	2.24	280.26	276	11	1.32E-02	37.1	2.36E+00	
1	175.10	78	467	1.82	350.94	347	8	3.26E-03	99.7	2.33E+00	
1	198.45	187	560	1.71	397.68	393	11	7.79E-03	57.0	2.25E+00	
1	595.87	101	177	1.79	1192.91	1188	11	4.20E-03	55.0	1.10E+00	
1	609.43	133	175	1.72	1220.04	1214	13	5.56E-03	52.6	1.09E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 6
Number of unidentified lines 6
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	3.903E+00		1.660E+01	2.726E+01	0.000E+00	0.143
NA-24	-2.742E-02		1.121E-02	Half-Life too short		
K-40	2.247E+01		2.776E+01	4.729E+01	0.000E+00	0.475
CR-51	-1.155E+01		1.794E+01	2.933E+01	0.000E+00	-0.394
MN-54	1.050E+00		1.771E+00	3.004E+00	0.000E+00	0.350
CO-57	1.118E-01		1.746E+00	2.858E+00	0.000E+00	0.039
CO-58	7.674E-01		1.900E+00	3.201E+00	0.000E+00	0.240
FE-59	2.464E+00		3.667E+00	6.287E+00	0.000E+00	0.392
CO-60	9.746E-01		1.800E+00	3.041E+00	0.000E+00	0.320
ZN-65	5.827E+00		3.945E+00	6.994E+00	0.000E+00	0.833
SE-75	1.554E+00		2.492E+00	4.136E+00	0.000E+00	0.376
SR-85	2.232E+01		2.377E+00	4.810E+00	0.000E+00	4.641
Y-88	-2.365E-01		2.062E+00	3.387E+00	0.000E+00	-0.070
NB-94	-1.008E+00		1.765E+00	2.810E+00	0.000E+00	-0.359
NB-95	8.786E-01		1.891E+00	3.204E+00	0.000E+00	0.274
ZR-95	2.258E+00		3.350E+00	5.611E+00	0.000E+00	0.402
MO-99	3.637E+01		1.122E+02	1.852E+02	0.000E+00	0.196
RU-103	1.430E+00		2.078E+00	3.461E+00	0.000E+00	0.413
RU-106	1.159E+01		1.700E+01	2.873E+01	0.000E+00	0.403
AG-110m	-3.880E-01		1.735E+00	2.817E+00	0.000E+00	-0.138
SN-113	-1.553E-01		2.406E+00	3.954E+00	0.000E+00	-0.039
SB-124	3.642E-01		4.549E+00	3.244E+00	0.000E+00	0.112

SB-125	-7.422E-03	5.174E+00	8.478E+00	0.000E+00	-0.001
TE-129M	1.863E+01	2.280E+01	3.832E+01	0.000E+00	0.486
I-131	-1.133E+00	3.623E+00	5.932E+00	0.000E+00	-0.191
BA-133	6.028E+00	2.523E+00	4.453E+00	0.000E+00	1.354
CS-134	5.140E+00	3.555E+00	3.495E+00	0.000E+00	1.471
CS-136	-1.169E+00	2.638E+00	4.273E+00	0.000E+00	-0.274
CS-137	-5.759E-04	1.910E+00	3.129E+00	0.000E+00	0.000
CE-139	1.751E-02	1.763E+00	2.845E+00	0.000E+00	0.006
BA-140	3.057E-01	9.630E+00	1.600E+01	0.000E+00	0.019
LA-140	2.242E+00	3.155E+00	5.429E+00	0.000E+00	0.413
CE-141	2.983E+00	4.083E+00	5.767E+00	0.000E+00	0.517
CE-144	1.799E+01	1.577E+01	2.265E+01	0.000E+00	0.794
EU-152	-1.485E+01	5.741E+00	8.817E+00	0.000E+00	-1.684
EU-154	-6.090E-01	3.624E+00	5.899E+00	0.000E+00	-0.103
RA-226	2.418E+00	4.652E+01	7.457E+01	0.000E+00	0.032
AC-228	-2.944E+00	7.590E+00	1.136E+01	0.000E+00	-0.259
TH-228	-6.991E-01	3.734E+00	5.882E+00	0.000E+00	-0.119
TH-232	-2.936E+00	7.569E+00	1.133E+01	0.000E+00	-0.259
U-235	2.407E+01	1.581E+01	2.288E+01	0.000E+00	1.052
U-238	6.091E+01	1.955E+02	3.242E+02	0.000E+00	0.188
AM-241	-2.201E+01	1.838E+01	2.639E+01	0.000E+00	-0.834

```
A,07L28875-5       ,06/15/2006 04:15,06/06/2006 14:10,   3.180E+00,WG L28875-5 TM
B,07L28875-5       ,LIBD                ,06/07/2006 09:32,073L082504
C,BE-7    ,NO ,   3.903E+00,   1.660E+01,   2.726E+01,,    0.143
C,K-40    ,NO ,   2.247E+01,   2.776E+01,   4.729E+01,,    0.475
C,CR-51   ,NO ,  -1.155E+01,   1.794E+01,   2.933E+01,,   -0.394
C,MN-54   ,NO ,   1.050E+00,   1.771E+00,   3.004E+00,,    0.350
C,CO-57   ,NO ,   1.118E-01,   1.746E+00,   2.858E+00,,    0.039
C,CO-58   ,NO ,   7.674E-01,   1.900E+00,   3.201E+00,,    0.240
C,FE-59   ,NO ,   2.464E+00,   3.667E+00,   6.287E+00,,    0.392
C,CO-60   ,NO ,   9.746E-01,   1.800E+00,   3.041E+00,,    0.320
C,ZN-65   ,NO ,   5.827E+00,   3.945E+00,   6.994E+00,,    0.833
C,SE-75   ,NO ,   1.554E+00,   2.492E+00,   4.136E+00,,    0.376
C,SR-85   ,NO ,   2.232E+01,   2.377E+00,   4.810E+00,,    4.641
C,Y-88    ,NO ,  -2.365E-01,   2.062E+00,   3.387E+00,,   -0.070
C,NB-94   ,NO ,  -1.008E+00,   1.765E+00,   2.810E+00,,   -0.359
C,NB-95   ,NO ,   8.786E-01,   1.891E+00,   3.204E+00,,    0.274
C,ZR-95   ,NO ,   2.258E+00,   3.350E+00,   5.611E+00,,    0.402
C,MO-99   ,NO ,   3.637E+01,   1.122E+02,   1.852E+02,,    0.196
C,RU-103  ,NO ,   1.430E+00,   2.078E+00,   3.461E+00,,    0.413
C,RU-106  ,NO ,   1.159E+01,   1.700E+01,   2.873E+01,,    0.403
C,AG-110m ,NO ,  -3.880E-01,   1.735E+00,   2.817E+00,,   -0.138
C,SN-113  ,NO ,  -1.553E-01,   2.406E+00,   3.954E+00,,   -0.039
C,SB-124  ,NO ,   3.642E-01,   4.549E+00,   3.244E+00,,    0.112
C,SB-125  ,NO ,  -7.422E-03,   5.174E+00,   8.478E+00,,   -0.001
C,TE-129M ,NO ,   1.863E+01,   2.280E+01,   3.832E+01,,    0.486
C,I-131   ,NO ,  -1.133E+00,   3.623E+00,   5.932E+00,,   -0.191
C,BA-133  ,NO ,   6.028E+00,   2.523E+00,   4.453E+00,,    1.354
C,CS-134  ,NO ,   5.140E+00,   3.555E+00,   3.495E+00,,    1.471
C,CS-136  ,NO ,  -1.169E+00,   2.638E+00,   4.273E+00,,   -0.274
C,CS-137  ,NO ,  -5.759E-04,   1.910E+00,   3.129E+00,,    0.000
C,CE-139  ,NO ,   1.751E-02,   1.763E+00,   2.845E+00,,    0.006
C,BA-140  ,NO ,   3.057E-01,   9.630E+00,   1.600E+01,,    0.019
C,LA-140  ,NO ,   2.242E+00,   3.155E+00,   5.429E+00,,    0.413
C,CE-141  ,NO ,   2.983E+00,   4.083E+00,   5.767E+00,,    0.517
C,CE-144  ,NO ,   1.799E+01,   1.577E+01,   2.265E+01,,    0.794
C,EU-152  ,NO ,  -1.485E+01,   5.741E+00,   8.817E+00,,   -1.684
C,EU-154  ,NO ,  -6.090E-01,   3.624E+00,   5.899E+00,,   -0.103
C,RA-226  ,NO ,   2.418E+00,   4.652E+01,   7.457E+01,,    0.032
C,AC-228  ,NO ,  -2.944E+00,   7.590E+00,   1.136E+01,,   -0.259
C,TH-228  ,NO ,  -6.991E-01,   3.734E+00,   5.882E+00,,   -0.119
C,TH-232  ,NO ,  -2.936E+00,   7.569E+00,   1.133E+01,,   -0.259
C,U-235   ,NO ,   2.407E+01,   1.581E+01,   2.288E+01,,    1.052
C,U-238   ,NO ,   6.091E+01,   1.955E+02,   3.242E+02,,    0.188
C,AM-241  ,NO ,  -2.201E+01,   1.838E+01,   2.639E+01,,   -0.834
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 06:05:51.30
TBE10 12892256 HpGe ********** Aquisition Date/Time: 14-JUN-2006 22:05:34.81

LIMS No., Customer Name, Client ID: WG L28875-6 TMI

Sample ID : 10L28875-6
Sample Type : WG
Quantity : 3.02890E+00 L
Start Channel : 80 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 6-JUN-2006 14:10:00.0
Geometry : 103L083004
BKGFILE : 10BG060306MT
Real Time : 0 08:00:04.67
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.53*	209	755	1.30	132.46	7.35E-01	7.27E-03	25.7	6.82E-01
2	1	92.68*	44	907	1.47	184.79	1.52E+00	1.54E-03	143.3	1.11E+00
3	1	139.73	241	860	1.29	278.94	1.91E+00	8.35E-03	22.9	4.58E-01
4	1	185.44*	208	1072	2.81	370.42	1.77E+00	7.21E-03	37.4	1.52E+00
5	1	198.41*	181	719	1.54	396.35	1.71E+00	6.30E-03	31.9	1.61E+00
6	1	351.65*	14	347	2.64	703.03	1.17E+00	5.03E-04	299.4	1.81E+00
7	1	499.26	57	255	2.70	998.46	8.99E-01	1.99E-03	56.4	6.64E+00
8	1	582.79*	10	140	1.65	1165.67	7.99E-01	3.36E-04	288.4	6.60E-01
9	1	595.79	82	173	2.00	1191.69	7.86E-01	2.85E-03	34.5	2.67E+00
10	1	609.51*	111	179	2.20	1219.15	7.72E-01	3.87E-03	31.1	2.83E+00
11	1	709.04	65	216	7.70	1418.41	6.87E-01	2.25E-03	55.8	3.06E+00
12	1	1460.42*	11	103	2.28	2923.17	3.89E-01	3.97E-04	255.4	1.48E+00
13	1	1763.59*	6	38	2.64	3530.59	3.39E-01	1.95E-04	327.5	1.23E+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	11	10.67*	3.887E-01	8.549E+00	8.549E+00	510.71
RA-226	186.21	208	3.28*	1.772E+00	1.107E+02	1.107E+02	74.81
U-235	143.76	------	10.50*	1.905E+00	------	Line Not Found	------
	163.35	------	4.70	1.860E+00	------	Line Not Found	------
	185.71	208	54.00	1.772E+00	6.723E+00	6.723E+00	74.81
	205.31	------	4.70	1.684E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L28875-6

Acquisition date : 14-JUN-2006 22:05:34

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	8.549E+00	8.549E+00	43.66E+00	510.71	
RA-226	1600.00Y	1.00	1.107E+02	1.107E+02	0.828E+02	74.81	
U-235	7.04E+08Y	1.00	6.723E+00	6.723E+00	5.029E+00	74.81	K
			---	---			
	Total Activity :		1.260E+02	1.260E+02			
	Grand Total Activity :		1.260E+02	1.260E+02			

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

Unidentified Energy Lines
Sample ID : 10L28875-6

Acquisition date : 14-JUN-2006 22:05:34

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.53	209	755	1.30	132.46	129	8	7.27E-03	51.5	7.35E-01	
1	92.68	44	907	1.47	184.79	181	9	1.54E-03	****	1.52E+00	
1	139.73	241	860	1.29	278.94	275	9	8.35E-03	45.8	1.91E+00	
1	198.41	181	719	1.54	396.35	391	10	6.30E-03	63.9	1.71E+00	
1	351.65	14	347	2.64	703.03	697	12	5.03E-04	****	1.17E+00	
1	499.26	57	255	2.70	998.46	993	12	1.99E-03	****	8.99E-01	
1	582.79	10	140	1.65	1165.67	1161	10	3.36E-04	****	7.99E-01	T
1	595.79	82	173	2.00	1191.69	1185	12	2.85E-03	69.1	7.86E-01	
1	609.51	111	179	2.20	1219.15	1214	13	3.87E-03	62.2	7.72E-01	
1	709.04	65	216	7.70	1418.41	1411	19	2.25E-03	****	6.87E-01	
1	1763.59	6	38	2.64	3530.59	3521	19	1.95E-04	****	3.39E-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	8.549E+00	8.549E+00	43.66E+00	510.71	
RA-226	1600.00Y	1.00	1.107E+02	1.107E+02	0.828E+02	74.81	
			---	---			
	Total Activity :		1.192E+02	1.192E+02			

Grand Total Activity : 1.192E+02 1.192E+02

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	8.549E+00	4.366E+01	3.678E+01	0.000E+00	0.232
RA-226	1.107E+02	8.280E+01	8.421E+01	0.000E+00	1.314

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

	Key-Line Activity	K.L.	Act error	MDA	MDA error	Act/MDA

Nuclide	(pCi/L)	Ided	(pCi/L)		
BE-7	9.092E+00	2.115E+01	3.566E+01	0.000E+00	0.255
NA-24	-6.222E-03	1.554E-02	Half-Life too short		
CR-51	-1.250E+01	2.372E+01	3.783E+01	0.000E+00	-0.331
MN-54	4.527E-01	2.356E+00	3.872E+00	0.000E+00	0.117
CO-57	-1.397E+00	2.084E+00	3.422E+00	0.000E+00	-0.408
CO-58	2.145E+00	2.486E+00	4.215E+00	0.000E+00	0.509
FE-59	2.489E+00	4.770E+00	8.124E+00	0.000E+00	0.306
CO-60	-2.236E-01	2.350E+00	3.809E+00	0.000E+00	-0.059
ZN-65	6.956E+00	5.087E+00	8.981E+00	0.000E+00	0.774
SE-75	-1.404E+00	3.095E+00	5.020E+00	0.000E+00	-0.280
SR-85	1.871E+01	2.722E+00	5.295E+00	0.000E+00	3.532
Y-88	-1.659E+00	2.960E+00	4.669E+00	0.000E+00	-0.355
NB-94	-1.867E-01	2.663E+00	3.687E+00	0.000E+00	-0.051
NB-95	2.543E+00	2.397E+00	4.114E+00	0.000E+00	0.618
ZR-95	-1.763E+00	4.197E+00	6.761E+00	0.000E+00	-0.261
MO-99	1.052E+02	1.386E+02	2.357E+02	0.000E+00	0.446
RU-103	3.102E+00	2.535E+00	4.375E+00	0.000E+00	0.709
RU-106	-1.313E+01	2.365E+01	3.535E+01	0.000E+00	-0.371
AG-110m	-2.613E-01	2.179E+00	3.602E+00	0.000E+00	-0.073
SN-113	1.604E+00	2.880E+00	4.820E+00	0.000E+00	0.333
SB-124	1.472E+00	5.303E+00	3.847E+00	0.000E+00	0.383
SB-125	1.235E+00	6.578E+00	1.081E+01	0.000E+00	0.114
TE-129M	4.422E-01	3.026E+01	4.918E+01	0.000E+00	0.009
I-131	1.614E-01	4.656E+00	7.701E+00	0.000E+00	0.021
BA-133	2.426E+00	3.582E+00	5.167E+00	0.000E+00	0.469
CS-134	5.152E+00	4.368E+00	4.141E+00	0.000E+00	1.244
CS-136	-1.228E+00	3.550E+00	5.699E+00	0.000E+00	-0.216
CS-137	1.056E-01	2.413E+00	4.013E+00	0.000E+00	0.026
CE-139	1.391E-01	2.195E+00	3.592E+00	0.000E+00	0.039
BA-140	-1.355E+00	1.169E+01	1.919E+01	0.000E+00	-0.071
LA-140	1.085E+00	3.878E+00	6.469E+00	0.000E+00	0.168
CE-141	2.710E+00	4.830E+00	6.896E+00	0.000E+00	0.393
CE-144	-1.512E+01	1.913E+01	2.645E+01	0.000E+00	-0.571
EU-152	-4.460E+00	8.148E+00	1.119E+01	0.000E+00	-0.399
EU-154	-3.012E+00	4.305E+00	7.064E+00	0.000E+00	-0.426
AC-228	4.648E+00	9.524E+00	1.481E+01	0.000E+00	0.314
TH-228	2.846E+00	4.555E+00	7.089E+00	0.000E+00	0.401
TH-232	4.635E+00	9.497E+00	1.477E+01	0.000E+00	0.314
U-235	8.806E+00	1.890E+01	2.693E+01	0.000E+00	0.327
U-238	5.604E+00	2.537E+02	4.164E+02	0.000E+00	0.013
AM-241	-2.076E+01	1.763E+01	2.711E+01	0.000E+00	-0.766

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A,10L28875-6       ,06/15/2006 06:05,06/06/2006 14:10,   3.029E+00,WG L28875-6 TM
B,10L28875-6       ,LIBD                  ,06/13/2006 09:42,103L083004
C,K-40     ,YES,   8.549E+00,   4.366E+01,   3.678E+01,,    0.232
C,RA-226   ,YES,   1.107E+02,   8.280E+01,   8.421E+01,,    1.314
C,BE-7     ,NO ,   9.092E+00,   2.115E+01,   3.566E+01,,    0.255
C,CR-51    ,NO ,  -1.250E+01,   2.372E+01,   3.783E+01,,   -0.331
C,MN-54    ,NO ,   4.527E-01,   2.356E+00,   3.872E+00,,    0.117
C,CO-57    ,NO ,  -1.397E+00,   2.084E+00,   3.422E+00,,   -0.408
C,CO-58    ,NO ,   2.145E+00,   2.486E+00,   4.215E+00,,    0.509
C,FE-59    ,NO ,   2.489E+00,   4.770E+00,   8.124E+00,,    0.306
C,CO-60    ,NO ,  -2.236E-01,   2.350E+00,   3.809E+00,,   -0.059
C,ZN-65    ,NO ,   6.956E+00,   5.087E+00,   8.981E+00,,    0.774
C,SE-75    ,NO ,  -1.404E+00,   3.095E+00,   5.020E+00,,   -0.280
C,SR-85    ,NO ,   1.871E+01,   2.722E+00,   5.295E+00,,    3.532
C,Y-88     ,NO ,  -1.659E+00,   2.960E+00,   4.669E+00,,   -0.355
C,NB-94    ,NO ,  -1.867E-01,   2.663E+00,   3.687E+00,,   -0.051
C,NB-95    ,NO ,   2.543E+00,   2.397E+00,   4.114E+00,,    0.618
C,ZR-95    ,NO ,  -1.763E+00,   4.197E+00,   6.761E+00,,   -0.261
C,MO-99    ,NO ,   1.052E+02,   1.386E+02,   2.357E+02,,    0.446
C,RU-103   ,NO ,   3.102E+00,   2.535E+00,   4.375E+00,,    0.709
C,RU-106   ,NO ,  -1.313E+01,   2.365E+01,   3.535E+01,,   -0.371
C,AG-110m  ,NO ,  -2.613E-01,   2.179E+00,   3.602E+00,,   -0.073
C,SN-113   ,NO ,   1.604E+00,   2.880E+00,   4.820E+00,,    0.333
C,SB-124   ,NO ,   1.472E+00,   5.303E+00,   3.847E+00,,    0.383
C,SB-125   ,NO ,   1.235E+00,   6.578E+00,   1.081E+01,,    0.114
C,TE-129M  ,NO ,   4.422E-01,   3.026E+01,   4.918E+01,,    0.009
C,I-131    ,NO ,   1.614E-01,   4.656E+00,   7.701E+00,,    0.021
C,BA-133   ,NO ,   2.426E+00,   3.582E+00,   5.167E+00,,    0.469
C,CS-134   ,NO ,   5.152E+00,   4.368E+00,   4.141E+00,,    1.244
C,CS-136   ,NO ,  -1.228E+00,   3.550E+00,   5.699E+00,,   -0.216
C,CS-137   ,NO ,   1.056E-01,   2.413E+00,   4.013E+00,,    0.026
C,CE-139   ,NO ,   1.391E-01,   2.195E+00,   3.592E+00,,    0.039
C,BA-140   ,NO ,  -1.355E+00,   1.169E+01,   1.919E+01,,   -0.071
C,LA-140   ,NO ,   1.085E+00,   3.878E+00,   6.469E+00,,    0.168
C,CE-141   ,NO ,   2.710E+00,   4.830E+00,   6.896E+00,,    0.393
C,CE-144   ,NO ,  -1.512E+01,   1.913E+01,   2.645E+01,,   -0.571
C,EU-152   ,NO ,  -4.460E+00,   8.148E+00,   1.119E+01,,   -0.399
C,EU-154   ,NO ,  -3.012E+00,   4.305E+00,   7.064E+00,,   -0.426
C,AC-228   ,NO ,   4.648E+00,   9.524E+00,   1.481E+01,,    0.314
C,TH-228   ,NO ,   2.846E+00,   4.555E+00,   7.089E+00,,    0.401
C,TH-232   ,NO ,   4.635E+00,   9.497E+00,   1.477E+01,,    0.314
C,U-235    ,NO ,   8.806E+00,   1.890E+01,   2.693E+01,,    0.327
C,U-238    ,NO ,   5.604E+00,   2.537E+02,   4.164E+02,,    0.013
C,AM-241   ,NO ,  -2.076E+01,   1.763E+01,   2.711E+01,,   -0.766
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Sec. Review: Analyst: LIMS:

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 04:46:06.97
TBE23 03017322 HpGe ********** Aquisition Date/Time: 14-JUN-2006 22:05:40.43

LIMS No., Customer Name, Client ID: WG L28875-7 TMI

Sample ID : 23L28875-7
Sample Type : WG
Quantity : 3.14400E+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: 6-JUN-2006 10:00:00.0
Geometry : 233L082404
BKGFILE : 23BG060306MT
Real Time : 0 06:40:16.16
Live time : 0 06:40:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	2	33.57*	61	29	1.16	67.47	7.94E-02	2.52E-03	50.6	6.20E+00
2	2	38.21*	45	213	1.46	76.73	1.64E-01	1.85E-03	96.3	
3	2	40.19*	38	292	1.47	80.70	2.11E-01	1.57E-03	113.9	
4	2	44.10*	16	452	1.45	88.51	3.20E-01	6.50E-04	290.8	
5	2	46.47*	6	490	1.34	93.24	3.97E-01	2.49E-04	688.6	
6	0	64.76	442	1874	4.00	129.81	1.10E+00	1.84E-02	23.5	
7	0	92.51*	0	1093	1.21	185.26	1.94E+00	1.10E-05	*****	
8	0	139.56*	100	867	1.13	279.29	2.32E+00	4.17E-03	56.5	
9	0	198.29*	110	647	1.16	396.66	2.11E+00	4.60E-03	45.2	
10	0	238.23*	50	535	1.55	476.51	1.90E+00	2.07E-03	98.8	
11	0	295.02*	159	519	1.22	590.00	1.64E+00	6.63E-03	31.9	
12	0	351.64*	158	385	0.94	703.19	1.44E+00	6.59E-03	28.1	
13	0	595.68	163	186	1.87	1191.04	9.56E-01	6.80E-03	19.7	
14	0	608.91*	201	147	1.55	1217.49	9.41E-01	8.39E-03	16.4	
15	0	911.58*	47	97	0.82	1822.69	7.08E-01	1.95E-03	55.6	
16	0	1238.75	37	57	1.78	2477.04	5.74E-01	1.53E-03	42.0	
17	0	1461.00*	1	55	2.06	2921.63	5.10E-01	3.16E-05	*****	
18	0	1765.34*	21	47	1.45	3530.58	4.38E-01	8.84E-04	89.2	

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*	5.095E-01	4.991E-01	4.991E-01	6829.55
AC-228	835.50	------	1.75	7.515E-01	------	Line Not Found	------
	911.07	47	27.70*	7.081E-01	8.553E+00	8.578E+00	111.17
TH-228	238.63	50	44.60*	1.902E+00	2.100E+00	2.118E+00	197.62
	240.98	------	3.95	1.888E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 23L28875-7
Acquisition date : 14-JUN-2006 22:05:40

Total number of lines in spectrum	18	
Number of unidentified lines	15	
Number of lines tentatively identified by NID	3	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	4.991E-01	4.991E-01	340.9E-01	6829.55	
AC-228	5.75Y	1.00	8.553E+00	8.578E+00	9.536E+00	111.17	
TH-228	1.91Y	1.01	2.100E+00	2.118E+00	4.186E+00	197.62	
			---	---			
	Total Activity :		1.115E+01	1.120E+01			

Grand Total Activity : 1.115E+01 1.120E+01

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

Unidentified Energy Lines
Sample ID : 23L28875-7

Acquisition date : 14-JUN-2006 22:05:40

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
2	33.57	61	29	1.16	67.47	64	35	2.52E-03	****	7.94E-02	
2	38.21	45	213	1.46	76.73	64	35	1.85E-03	****	1.64E-01	
2	40.19	38	292	1.47	80.70	64	35	1.57E-03	****	2.11E-01	
2	44.10	16	452	1.45	88.51	64	35	6.50E-04	****	3.20E-01	
2	46.47	6	490	1.34	93.24	64	35	2.49E-04	****	3.97E-01	
0	64.76	442	1874	4.00	129.81	122	18	1.84E-02	46.9	1.10E+00	
0	92.51	0	1093	1.21	185.26	181	9	1.10E-05	****	1.94E+00	
0	139.56	100	867	1.13	279.29	276	8	4.17E-03	****	2.32E+00	
0	198.29	110	647	1.16	396.66	393	8	4.60E-03	90.3	2.11E+00	
0	295.02	159	519	1.22	590.00	584	12	6.63E-03	63.9	1.64E+00	
0	351.64	158	385	0.94	703.19	698	11	6.59E-03	56.2	1.44E+00	
0	595.68	163	186	1.87	1191.04	1185	15	6.80E-03	39.5	9.56E-01	
0	608.91	201	147	1.55	1217.49	1212	11	8.39E-03	32.8	9.41E-01	
0	1238.75	37	57	1.78	2477.04	2471	10	1.53E-03	84.0	5.74E-01	
0	1765.34	21	47	1.45	3530.58	3525	16	8.84E-04	****	4.38E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	18	
Number of unidentified lines	15	
Number of lines tentatively identified by NID	3	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	4.991E-01	4.991E-01	340.9E-01	6829.55	
AC-228	5.75Y	1.00	8.553E+00	8.578E+00	9.536E+00	111.17	
TH-228	1.91Y	1.01	2.100E+00	2.118E+00	4.186E+00	197.62	
		Total Activity :	1.115E+01	1.120E+01			

Grand Total Activity : 1.115E+01 1.120E+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	4.991E-01	3.409E+01	3.405E+01	0.000E+00	0.015
AC-228	8.578E+00	9.536E+00	1.201E+01	0.000E+00	0.714

TH-228	2.118E+00	4.186E+00	6.630E+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	-3.739E+00		1.931E+01	3.225E+01	0.000E+00	-0.116
NA-24	-2.163E-02		1.525E-02	Half-Life too short		
CR-51	-6.113E+00		2.208E+01	3.711E+01	0.000E+00	-0.165
MN-54	2.986E+00		1.986E+00	3.620E+00	0.000E+00	0.825
CO-57	-1.292E+00		2.278E+00	3.776E+00	0.000E+00	-0.342
CO-58	1.088E+00		2.158E+00	3.764E+00	0.000E+00	0.289
FE-59	7.625E-01		3.953E+00	6.935E+00	0.000E+00	0.110
CO-60	-8.833E-01		2.022E+00	3.400E+00	0.000E+00	-0.260
ZN-65	5.403E+00		4.484E+00	8.182E+00	0.000E+00	0.660
SE-75	3.406E-02		3.047E+00	5.173E+00	0.000E+00	0.007
SR-85	1.539E+01		2.564E+00	4.970E+00	0.000E+00	3.097
Y-88	-3.261E+00		2.262E+00	3.518E+00	0.000E+00	-0.927
NB-94	-6.316E-01		2.032E+00	3.427E+00	0.000E+00	-0.184
NB-95	3.515E+00		2.162E+00	3.944E+00	0.000E+00	0.891
ZR-95	-2.250E+00		3.977E+00	6.619E+00	0.000E+00	-0.340
MO-99	6.186E-01		1.320E+02	2.257E+02	0.000E+00	0.003
RU-103	5.642E-01		2.418E+00	4.093E+00	0.000E+00	0.138
RU-106	3.050E+00		1.950E+01	3.365E+01	0.000E+00	0.091
AG-110m	-1.812E+00		2.053E+00	3.391E+00	0.000E+00	-0.534
SN-113	3.740E-01		2.792E+00	4.732E+00	0.000E+00	0.079
SB-124	-3.907E-01		5.071E+00	3.696E+00	0.000E+00	-0.106
SB-125	-6.978E-02		5.939E+00	1.001E+01	0.000E+00	-0.007
TE-129M	-2.232E+01		2.876E+01	4.709E+01	0.000E+00	-0.474
I-131	-9.881E-01		4.531E+00	7.606E+00	0.000E+00	-0.130
BA-133	7.820E+00		3.500E+00	5.447E+00	0.000E+00	1.436
CS-134	8.642E+00		4.803E+00	4.396E+00	0.000E+00	1.966
CS-136	2.445E-01		2.898E+00	4.975E+00	0.000E+00	0.049
CS-137	-9.927E-01		2.289E+00	3.851E+00	0.000E+00	-0.258
CE-139	1.696E+00		2.399E+00	4.035E+00	0.000E+00	0.420
BA-140	2.833E+00		1.127E+01	1.912E+01	0.000E+00	0.148
LA-140	1.512E+00		3.531E+00	6.374E+00	0.000E+00	0.237
CE-141	6.511E+00		5.338E+00	7.781E+00	0.000E+00	0.837
CE-144	5.256E-01		2.080E+01	2.951E+01	0.000E+00	0.018
EU-152	-5.095E+00		7.915E+00	1.102E+01	0.000E+00	-0.462
EU-154	-3.037E+00		4.706E+00	7.792E+00	0.000E+00	-0.390
RA-226	-3.224E+01		6.322E+01	9.676E+01	0.000E+00	-0.333
TH-232	8.553E+00	+	9.509E+00	1.292E+01	0.000E+00	0.662
U-235	2.340E+01		2.164E+01	3.030E+01	0.000E+00	0.772
U-238	-6.357E+01		2.427E+02	3.871E+02	0.000E+00	-0.164
AM-241	1.339E+01		1.465E+01	2.096E+01	0.000E+00	0.639

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A,23L28875-7        ,06/15/2006 04:46,06/06/2006 10:00,   3.144E+00,WG L28875-7 TM
B,23L28875-7        ,LIBD                  ,06/01/2006 10:14,233L082404
C,K-40     ,YES,    4.991E-01,   3.409E+01,   3.405E+01,,    0.015
C,AC-228   ,YES,    8.578E+00,   9.536E+00,   1.201E+01,,    0.714
C,TH-228   ,YES,    2.118E+00,   4.186E+00,   6.630E+00,,    0.319
C,BE-7     ,NO ,   -3.739E+00,   1.931E+01,   3.225E+01,,   -0.116
C,CR-51    ,NO ,   -6.113E+00,   2.208E+01,   3.711E+01,,   -0.165
C,MN-54    ,NO ,    2.986E+00,   1.986E+00,   3.620E+00,,    0.825
C,CO-57    ,NO ,   -1.292E+00,   2.278E+00,   3.776E+00,,   -0.342
C,CO-58    ,NO ,    1.088E+00,   2.158E+00,   3.764E+00,,    0.289
C,FE-59    ,NO ,    7.625E-01,   3.953E+00,   6.935E+00,,    0.110
C,CO-60    ,NO ,   -8.833E-01,   2.022E+00,   3.400E+00,,   -0.260
C,ZN-65    ,NO ,    5.403E+00,   4.484E+00,   8.182E+00,,    0.660
C,SE-75    ,NO ,    3.406E-02,   3.047E+00,   5.173E+00,,    0.007
C,SR-85    ,NO ,    1.539E+01,   2.564E+00,   4.970E+00,,    3.097
C,Y-88     ,NO ,   -3.261E+00,   2.262E+00,   3.518E+00,,   -0.927
C,NB-94    ,NO ,   -6.316E-01,   2.032E+00,   3.427E+00,,   -0.184
C,NB-95    ,NO ,    3.515E+00,   2.162E+00,   3.944E+00,,    0.891
C,ZR-95    ,NO ,   -2.250E+00,   3.977E+00,   6.619E+00,,   -0.340
C,MO-99    ,NO ,    6.186E-01,   1.320E+02,   2.257E+02,,    0.003
C,RU-103   ,NO ,    5.642E-01,   2.418E+00,   4.093E+00,,    0.138
C,RU-106   ,NO ,    3.050E+00,   1.950E+01,   3.365E+01,,    0.091
C,AG-110m  ,NO ,   -1.812E+00,   2.053E+00,   3.391E+00,,   -0.534
C,SN-113   ,NO ,    3.740E-01,   2.792E+00,   4.732E+00,,    0.079
C,SB-124   ,NO ,   -3.907E-01,   5.071E+00,   3.696E+00,,   -0.106
C,SB-125   ,NO ,   -6.978E-02,   5.939E+00,   1.001E+01,,   -0.007
C,TE-129M  ,NO ,   -2.232E+01,   2.876E+01,   4.709E+01,,   -0.474
C,I-131    ,NO ,   -9.881E-01,   4.531E+00,   7.606E+00,,   -0.130
C,BA-133   ,NO ,    7.820E+00,   3.500E+00,   5.447E+00,,    1.436
C,CS-134   ,NO ,    8.642E+00,   4.803E+00,   4.396E+00,,    1.966
C,CS-136   ,NO ,    2.445E-01,   2.898E+00,   4.975E+00,,    0.049
C,CS-137   ,NO ,   -9.927E-01,   2.289E+00,   3.851E+00,,   -0.258
C,CE-139   ,NO ,    1.696E+00,   2.399E+00,   4.035E+00,,    0.420
C,BA-140   ,NO ,    2.833E+00,   1.127E+01,   1.912E+01,,    0.148
C,LA-140   ,NO ,    1.512E+00,   3.531E+00,   6.374E+00,,    0.237
C,CE-141   ,NO ,    6.511E+00,   5.338E+00,   7.781E+00,,    0.837
C,CE-144   ,NO ,    5.256E-01,   2.080E+01,   2.951E+01,,    0.018
C,EU-152   ,NO ,   -5.095E+00,   7.915E+00,   1.102E+01,,   -0.462
C,EU-154   ,NO ,   -3.037E+00,   4.706E+00,   7.792E+00,,   -0.390
C,RA-226   ,NO ,   -3.224E+01,   6.322E+01,   9.676E+01,,   -0.333
C,TH-232   ,NO ,    8.553E+00,   9.509E+00,   1.292E+01,,    0.662
C,U-235    ,NO ,    2.340E+01,   2.164E+01,   3.030E+01,,    0.772
C,U-238    ,NO ,   -6.357E+01,   2.427E+02,   3.871E+02,,   -0.164
C,AM-241   ,NO ,    1.339E+01,   1.465E+01,   2.096E+01,,    0.639
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 06:14:37.46
TBE14 P-10933A HpGe ********** Aquisition Date/Time: 14-JUN-2006 22:14:25.05

LIMS No., Customer Name, Client ID: WG L28875-8 TMI

Sample ID : 14L28875-8
Sample Type : WG
Quantity : 3.03620E+00 L
Start Channel : 90 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 6-JUN-2006 15:25:00.0
Geometry : 143L082304
BKGFILE : 14BG060306MT
Real Time : 0 08:00:04.80
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.38	267	1187	1.92	133.91	5.13E-01	9.29E-03	24.9	9.16E-01
2	1	92.67*	81	943	1.56	186.70	1.28E+00	2.82E-03	77.1	1.09E+00
3	1	139.75	268	982	2.01	281.22	1.89E+00	9.29E-03	22.7	6.19E-01
4	1	198.66*	220	782	1.58	399.43	1.83E+00	7.64E-03	26.7	7.11E-01
5	1	238.82*	12	748	1.43	479.98	1.67E+00	4.13E-04	481.1	1.89E+00
6	1	295.57	111	654	1.59	593.79	1.46E+00	3.84E-03	45.9	3.42E+00
7	1	352.23*	173	397	1.65	707.35	1.28E+00	6.01E-03	27.3	1.13E+00
8	1	583.10*	41	220	1.96	1169.58	8.62E-01	1.42E-03	87.2	1.80E+00
9	1	596.20	135	251	2.65	1195.80	8.47E-01	4.69E-03	26.8	2.32E+00
10	1	609.27*	286	224	1.97	1221.93	8.33E-01	9.93E-03	14.6	3.16E+00
11	1	912.15*	85	134	4.83	1826.94	6.16E-01	2.95E-03	38.1	3.20E+00
12	1	1120.93*	65	151	2.48	2243.18	5.30E-01	2.27E-03	49.6	7.88E-01
13	1	1238.55	36	100	2.07	2477.36	4.92E-01	1.25E-03	60.9	1.79E+00
14	1	1461.54*	42	65	2.14	2920.78	4.36E-01	1.46E-03	65.8	1.12E+00
15	1	1766.66*	48	48	2.53	3526.28	3.79E-01	1.66E-03	43.0	3.40E+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*	4.361E-01	2.786E+01	2.786E+01	131.68
AC-228	835.50	------	1.75	6.571E-01	------	Line Not Found	------
	911.07	85	27.70*	6.159E-01	1.538E+01	1.542E+01	76.22
TH-228	238.63	12	44.60*	1.674E+00	4.928E-01	4.969E-01	962.27
	240.98	------	3.95	1.666E+00	------	Line Not Found	------
TH-232	583.14	41	30.25	8.621E-01	4.853E+00	4.853E+00	174.45
	911.07	85	27.70*	6.159E-01	1.538E+01	1.538E+01	76.22
	969.11	------	16.60	5.892E-01	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 14L28875-8

Acquisition date : 14-JUN-2006 22:14:25

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
K-40	1.28E+09Y	1.00	2.786E+01	2.786E+01	3.668E+01	131.68	
AC-228	5.75Y	1.00	1.538E+01	1.542E+01	1.175E+01	76.22	
TH-228	1.91Y	1.01	4.928E-01	4.969E-01	47.82E-01	962.27	
TH-232	1.41E+10Y	1.00	1.538E+01	1.538E+01	1.172E+01	76.22	
			---	---			
	Total Activity :		5.910E+01	5.915E+01			

Grand Total Activity : 5.910E+01 5.915E+01

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

Unidentified Energy Lines
Sample ID : 14L28875-8

Acquisition date : 14-JUN-2006 22:14:25

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.38	267	1187	1.92	133.91	129	10	9.29E-03	49.9	5.13E-01	
1	92.67	81	943	1.56	186.70	183	9	2.82E-03	****	1.28E+00	
1	139.75	268	982	2.01	281.22	277	10	9.29E-03	45.4	1.89E+00	
1	198.66	220	782	1.58	399.43	395	10	7.64E-03	53.4	1.83E+00	
1	295.57	111	654	1.59	593.79	588	11	3.84E-03	91.7	1.46E+00	
1	352.23	173	397	1.65	707.35	703	10	6.01E-03	54.7	1.28E+00	
1	596.20	135	251	2.65	1195.80	1187	15	4.69E-03	53.6	8.47E-01	
1	609.27	286	224	1.97	1221.93	1215	14	9.93E-03	29.2	8.33E-01	
1	1120.93	65	151	2.48	2243.18	2235	17	2.27E-03	99.2	5.30E-01	
1	1238.55	36	100	2.07	2477.36	2473	14	1.25E-03	****	4.92E-01	
1	1766.66	48	48	2.53	3526.28	3519	14	1.66E-03	85.9	3.79E-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
K-40	1.28E+09Y	1.00	2.786E+01	2.786E+01	3.668E+01	131.68	
AC-228	5.75Y	1.00	1.053E+01	1.055E+01	1.450E+01	137.37	
TH-228	1.91Y	1.01	4.928E-01	4.969E-01	47.82E-01	962.27	
TH-232	1.41E+10Y	1.00	4.853E+00	4.853E+00	8.465E+00	174.45	
		Total Activity :	4.373E+01	4.376E+01			

Grand Total Activity : 4.373E+01 4.376E+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	2.786E+01	3.668E+01	3.595E+01	0.000E+00	0.775
AC-228	1.055E+01	1.450E+01	1.356E+01	0.000E+00	0.778

TH-228	4.969E-01	4.782E+00	7.385E+00	0.000E+00	0.067
TH-232	4.853E+00	8.465E+00	1.507E+01	0.000E+00	0.322

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	1.444E+01		2.326E+01	3.866E+01	0.000E+00	0.374
NA-24	-1.502E-02		1.414E-02	Half-Life too short		
CR-51	-3.320E+01		2.597E+01	4.158E+01	0.000E+00	-0.798
MN-54	1.231E+00		2.384E+00	3.998E+00	0.000E+00	0.308
CO-57	-1.643E-02		2.726E+00	4.457E+00	0.000E+00	-0.004
CO-58	5.977E-02		2.546E+00	4.191E+00	0.000E+00	0.014
FE-59	4.388E-01		4.854E+00	7.941E+00	0.000E+00	0.055
CO-60	-1.763E-01		2.285E+00	3.755E+00	0.000E+00	-0.047
ZN-65	9.074E+00		6.544E+00	9.718E+00	0.000E+00	0.934
SE-75	2.321E+00		3.503E+00	5.868E+00	0.000E+00	0.396
SR-85	2.296E+01		2.996E+00	5.735E+00	0.000E+00	4.004
Y-88	-2.835E-01		2.767E+00	4.482E+00	0.000E+00	-0.063
NB-94	1.667E+00		2.381E+00	4.025E+00	0.000E+00	0.414
NB-95	-8.108E-01		2.649E+00	4.317E+00	0.000E+00	-0.188
ZR-95	-1.075E+00		4.499E+00	7.347E+00	0.000E+00	-0.146
MO-99	7.494E+01		1.452E+02	2.442E+02	0.000E+00	0.307
RU-103	-1.021E+00		2.883E+00	4.652E+00	0.000E+00	-0.219
RU-106	-8.750E+00		2.511E+01	3.802E+01	0.000E+00	-0.230
AG-110m	6.356E-01		2.452E+00	4.093E+00	0.000E+00	0.155
SN-113	2.080E+00		3.429E+00	5.710E+00	0.000E+00	0.364
SB-124	3.500E+00		6.288E+00	4.459E+00	0.000E+00	0.785
SB-125	-4.039E-01		7.326E+00	1.198E+01	0.000E+00	-0.034
TE-129M	1.539E+01		3.332E+01	5.517E+01	0.000E+00	0.279
I-131	2.384E+00		5.453E+00	8.726E+00	0.000E+00	0.273
BA-133	1.213E+01		4.323E+00	6.523E+00	0.000E+00	1.859
CS-134	1.391E+01		5.921E+00	5.060E+00	0.000E+00	2.748
CS-136	2.489E+00		3.580E+00	6.051E+00	0.000E+00	0.411
CS-137	-9.437E-02		2.661E+00	4.398E+00	0.000E+00	-0.021
CE-139	-9.709E-01		2.680E+00	4.337E+00	0.000E+00	-0.224
BA-140	2.905E+00		1.366E+01	2.239E+01	0.000E+00	0.130
LA-140	2.214E+00		3.857E+00	6.558E+00	0.000E+00	0.338
CE-141	1.038E+00		6.230E+00	8.577E+00	0.000E+00	0.121
CE-144	3.343E-01		2.452E+01	3.369E+01	0.000E+00	0.010
EU-152	-7.010E+00		9.597E+00	1.293E+01	0.000E+00	-0.542
EU-154	-1.076E+00		5.631E+00	9.180E+00	0.000E+00	-0.117
RA-226	-5.829E+00		6.962E+01	1.056E+02	0.000E+00	-0.055
U-235	3.013E+01		2.441E+01	3.444E+01	0.000E+00	0.875
U-238	1.015E+02		2.645E+02	4.397E+02	0.000E+00	0.231
AM-241	-4.809E+01		4.326E+01	5.867E+01	0.000E+00	-0.820

```
A,14L28875-8       ,06/15/2006 06:14,06/06/2006 15:25,   3.036E+00,WG L28875-8 TM
B,14L28875-8       ,LIBD                ,06/14/2006 10:50,143L082304
C,K-40     ,YES,   2.786E+01,   3.668E+01,   3.595E+01,,    0.775
C,AC-228   ,YES,   1.055E+01,   1.450E+01,   1.356E+01,,    0.778
C,TH-228   ,YES,   4.969E-01,   4.782E+00,   7.385E+00,,    0.067
C,TH-232   ,YES,   4.853E+00,   8.465E+00,   1.507E+01,,    0.322
C,BE-7     ,NO ,   1.444E+01,   2.326E+01,   3.866E+01,,    0.374
C,CR-51    ,NO ,  -3.320E+01,   2.597E+01,   4.158E+01,,   -0.798
C,MN-54    ,NO ,   1.231E+00,   2.384E+00,   3.998E+00,,    0.308
C,CO-57    ,NO ,  -1.643E-02,   2.726E+00,   4.457E+00,,   -0.004
C,CO-58    ,NO ,   5.977E-02,   2.546E+00,   4.191E+00,,    0.014
C,FE-59    ,NO ,   4.388E-01,   4.854E+00,   7.941E+00,,    0.055
C,CO-60    ,NO ,  -1.763E-01,   2.285E+00,   3.755E+00,,   -0.047
C,ZN-65    ,NO ,   9.074E+00,   6.544E+00,   9.718E+00,,    0.934
C,SE-75    ,NO ,   2.321E+00,   3.503E+00,   5.868E+00,,    0.396
C,SR-85    ,NO ,   2.296E+01,   2.996E+00,   5.735E+00,,    4.004
C,Y-88     ,NO ,  -2.835E-01,   2.767E+00,   4.482E+00,,   -0.063
C,NB-94    ,NO ,   1.667E+00,   2.381E+00,   4.025E+00,,    0.414
C,NB-95    ,NO ,  -8.108E-01,   2.649E+00,   4.317E+00,,   -0.188
C,ZR-95    ,NO ,  -1.075E+00,   4.499E+00,   7.347E+00,,   -0.146
C,MO-99    ,NO ,   7.494E+01,   1.452E+02,   2.442E+02,,    0.307
C,RU-103   ,NO ,  -1.021E+00,   2.883E+00,   4.652E+00,,   -0.219
C,RU-106   ,NO ,  -8.750E+00,   2.511E+01,   3.802E+01,,   -0.230
C,AG-110m  ,NO ,   6.356E-01,   2.452E+00,   4.093E+00,,    0.155
C,SN-113   ,NO ,   2.080E+00,   3.429E+00,   5.710E+00,,    0.364
C,SB-124   ,NO ,   3.500E+00,   6.288E+00,   4.459E+00,,    0.785
C,SB-125   ,NO ,  -4.039E-01,   7.326E+00,   1.198E+01,,   -0.034
C,TE-129M  ,NO ,   1.539E+01,   3.332E+01,   5.517E+01,,    0.279
C,I-131    ,NO ,   2.384E+00,   5.453E+00,   8.726E+00,,    0.273
C,BA-133   ,NO ,   1.213E+01,   4.323E+00,   6.523E+00,,    1.859
C,CS-134   ,NO ,   1.391E+01,   5.921E+00,   5.060E+00,,    2.748
C,CS-136   ,NO ,   2.489E+00,   3.580E+00,   6.051E+00,,    0.411
C,CS-137   ,NO ,  -9.437E-02,   2.661E+00,   4.398E+00,,   -0.021
C,CE-139   ,NO ,  -9.709E-01,   2.680E+00,   4.337E+00,,   -0.224
C,BA-140   ,NO ,   2.905E+00,   1.366E+01,   2.239E+01,,    0.130
C,LA-140   ,NO ,   2.214E+00,   3.857E+00,   6.558E+00,,    0.338
C,CE-141   ,NO ,   1.038E+00,   6.230E+00,   8.577E+00,,    0.121
C,CE-144   ,NO ,   3.343E-01,   2.452E+01,   3.369E+01,,    0.010
C,EU-152   ,NO ,  -7.010E+00,   9.597E+00,   1.293E+01,,   -0.542
C,EU-154   ,NO ,  -1.076E+00,   5.631E+00,   9.180E+00,,   -0.117
C,RA-226   ,NO ,  -5.829E+00,   6.962E+01,   1.056E+02,,   -0.055
C,U-235    ,NO ,   3.013E+01,   2.441E+01,   3.444E+01,,    0.875
C,U-238    ,NO ,   1.015E+02,   2.645E+02,   4.397E+02,,    0.231
C,AM-241   ,NO ,  -4.809E+01,   4.326E+01,   5.867E+01,,   -0.820
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Sec. Review: Analyst: LIMS: ✓

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VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 11:54:09.14
TBE07 P-10768B HpGe ********** Aquisition Date/Time: 15-JUN-2006 09:19:34.60

LIMS No., Customer Name, Client ID: WG L28875-9 TMI

Sample ID : 07L28875-9
Sample Type : WG
Quantity : 3.16940E+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: 6-JUN-2006 10:50:00.0
Geometry : 073L082504
BKGFILE : 07BG060306MT
Real Time : 0 02:34:27.39
Live time : 0 02:34:25.57

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	3	241.65	60	168	1.34	484.13	2.04E+00	6.53E-03	39.7	4.53E+00
2	1	295.44*	68	150	1.72	591.78	1.81E+00	7.29E-03	38.8	1.75E+00
3	1	352.03*	106	69	1.24	705.01	1.61E+00	1.14E-02	19.4	4.12E-01
4	2	587.57	37	30	1.98	1176.31	1.11E+00	3.96E-03	32.6	4.60E+00
5	1	595.63	65	51	2.31	1192.44	1.10E+00	7.00E-03	26.3	1.84E+00
6	1	609.33*	128	52	1.90	1219.84	1.09E+00	1.38E-02	15.6	1.65E+00

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

Nuclide Line Activity Report

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 07L28875-9

Acquisition date : 15-JUN-2006 09:19:34

Total number of lines in spectrum	6	
Number of unidentified lines	5	
Number of lines tentatively identified by NID	1	16.67%

**** 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 : 07L28875-9

Acquisition date : 15-JUN-2006 09:19:34

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
3	241.65	60	168	1.34	484.13	473	15	6.53E-03	79.5	2.04E+00	T
1	295.44	68	150	1.72	591.78	588	10	7.29E-03	77.5	1.81E+00	
1	352.03	106	69	1.24	705.01	701	8	1.14E-02	38.8	1.61E+00	
2	587.57	37	30	1.98	1176.31	1162	18	3.96E-03	65.3	1.11E+00	
1	595.63	65	51	2.31	1192.44	1185	13	7.00E-03	52.5	1.10E+00	
1	609.33	128	52	1.90	1219.84	1215	11	1.38E-02	31.2	1.09E+00	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum 6
Number of unidentified lines 5
Number of lines tentatively identified by NID 1 16.67%
**** 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	3.224E+00		2.799E+01	4.587E+01	0.000E+00	0.070
NA-24	-6.903E-02		3.531E-02	Half-Life too short		
K-40	-2.860E+00		3.834E+01	6.993E+01	0.000E+00	-0.041
CR-51	1.876E+01		3.051E+01	5.211E+01	0.000E+00	0.360
MN-54	3.041E+00		3.114E+00	5.478E+00	0.000E+00	0.555
CO-57	1.400E+00		2.912E+00	4.838E+00	0.000E+00	0.289
CO-58	6.234E-02		3.200E+00	5.305E+00	0.000E+00	0.012
FE-59	-1.824E+00		6.269E+00	1.014E+01	0.000E+00	-0.180
CO-60	-4.813E-01		3.248E+00	5.230E+00	0.000E+00	-0.092
ZN-65	8.171E+00		7.024E+00	1.257E+01	0.000E+00	0.650
SE-75	-4.080E+00		4.045E+00	6.314E+00	0.000E+00	-0.646
SR-85	2.128E+01		4.010E+00	7.951E+00	0.000E+00	2.677
Y-88	-3.525E+00		2.969E+00	4.094E+00	0.000E+00	-0.861
NB-94	3.629E-01		3.105E+00	5.104E+00	0.000E+00	0.071
NB-95	-5.293E-02		3.045E+00	5.054E+00	0.000E+00	-0.010
ZR-95	-1.672E+00		5.555E+00	8.816E+00	0.000E+00	-0.190
MO-99	-1.271E+02		2.019E+02	3.122E+02	0.000E+00	-0.407
RU-103	9.116E-02		3.766E+00	6.125E+00	0.000E+00	0.015
RU-106	1.267E+01		2.854E+01	4.822E+01	0.000E+00	0.263
AG-110m	-2.623E+00		2.889E+00	4.433E+00	0.000E+00	-0.592
SN-113	-6.794E-01		4.011E+00	6.551E+00	0.000E+00	-0.104
SB-124	-3.417E+00		7.839E+00	4.907E+00	0.000E+00	-0.696

SB-125	-1.092E+00	8.659E+00	1.409E+01	0.000E+00	-0.077
TE-129M	1.625E+01	3.861E+01	6.451E+01	0.000E+00	0.252
I-131	1.679E+00	6.146E+00	1.030E+01	0.000E+00	0.163
BA-133	9.281E+00	4.931E+00	7.753E+00	0.000E+00	1.197
CS-134	6.919E+00	5.410E+00	6.117E+00	0.000E+00	1.131
CS-136	-1.268E+00	4.416E+00	7.149E+00	0.000E+00	-0.177
CS-137	6.762E-01	3.141E+00	5.222E+00	0.000E+00	0.129
CE-139	4.854E-01	2.947E+00	4.944E+00	0.000E+00	0.098
BA-140	6.889E-01	1.724E+01	2.868E+01	0.000E+00	0.024
LA-140	9.461E-01	5.357E+00	8.968E+00	0.000E+00	0.105
CE-141	-6.722E+00	6.184E+00	9.668E+00	0.000E+00	-0.695
CE-144	-3.426E+01	2.336E+01	3.614E+01	0.000E+00	-0.948
EU-152	-3.493E+00	1.078E+01	1.528E+01	0.000E+00	-0.229
EU-154	6.952E+00	6.034E+00	1.024E+01	0.000E+00	0.679
RA-226	-1.942E+01	7.229E+01	1.202E+02	0.000E+00	-0.162
AC-228	8.861E+00	1.212E+01	2.095E+01	0.000E+00	0.423
TH-228	5.678E+00	6.895E+00	1.035E+01	0.000E+00	0.549
TH-232	8.835E+00	1.209E+01	2.089E+01	0.000E+00	0.423
U-235	1.943E+01	2.316E+01	3.864E+01	0.000E+00	0.503
U-238	4.026E+01	3.028E+02	4.998E+02	0.000E+00	0.081
AM-241	-5.038E+01	2.828E+01	4.255E+01	0.000E+00	-1.184

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A,07L28875-9        ,06/15/2006 11:54,06/06/2006 10:50,   3.169E+00,WG L28875-9 TM
B,07L28875-9        ,LIBD                  ,06/07/2006 09:32,073L082504
C,BE-7     ,NO ,   3.224E+00,   2.799E+01,   4.587E+01,,    0.070
C,K-40     ,NO ,  -2.860E+00,   3.834E+01,   6.993E+01,,   -0.041
C,CR-51    ,NO ,   1.876E+01,   3.051E+01,   5.211E+01,,    0.360
C,MN-54    ,NO ,   3.041E+00,   3.114E+00,   5.478E+00,,    0.555
C,CO-57    ,NO ,   1.400E+00,   2.912E+00,   4.838E+00,,    0.289
C,CO-58    ,NO ,   6.234E-02,   3.200E+00,   5.305E+00,,    0.012
C,FE-59    ,NO ,  -1.824E+00,   6.269E+00,   1.014E+01,,   -0.180
C,CO-60    ,NO ,  -4.813E-01,   3.248E+00,   5.230E+00,,   -0.092
C,ZN-65    ,NO ,   8.171E+00,   7.024E+00,   1.257E+01,,    0.650
C,SE-75    ,NO ,  -4.080E+00,   4.045E+00,   6.314E+00,,   -0.646
C,SR-85    ,NO ,   2.128E+01,   4.010E+00,   7.951E+00,,    2.677
C,Y-88     ,NO ,  -3.525E+00,   2.969E+00,   4.094E+00,,   -0.861
C,NB-94    ,NO ,   3.629E-01,   3.105E+00,   5.104E+00,,    0.071
C,NB-95    ,NO ,  -5.293E-02,   3.045E+00,   5.054E+00,,   -0.010
C,ZR-95    ,NO ,  -1.672E+00,   5.555E+00,   8.816E+00,,   -0.190
C,MO-99    ,NO ,  -1.271E+02,   2.019E+02,   3.122E+02,,   -0.407
C,RU-103   ,NO ,   9.116E-02,   3.766E+00,   6.125E+00,,    0.015
C,RU-106   ,NO ,   1.267E+01,   2.854E+01,   4.822E+01,,    0.263
C,AG-110m  ,NO ,  -2.623E+00,   2.889E+00,   4.433E+00,,   -0.592
C,SN-113   ,NO ,  -6.794E-01,   4.011E+00,   6.551E+00,,   -0.104
C,SB-124   ,NO ,  -3.417E+00,   7.839E+00,   4.907E+00,,   -0.696
C,SB-125   ,NO ,  -1.092E+00,   8.659E+00,   1.409E+01,,   -0.077
C,TE-129M  ,NO ,   1.625E+01,   3.861E+01,   6.451E+01,,    0.252
C,I-131    ,NO ,   1.679E+00,   6.146E+00,   1.030E+01,,    0.163
C,BA-133   ,NO ,   9.281E+00,   4.931E+00,   7.753E+00,,    1.197
C,CS-134   ,NO ,   6.919E+00,   5.410E+00,   6.117E+00,,    1.131
C,CS-136   ,NO ,  -1.268E+00,   4.416E+00,   7.149E+00,,   -0.177
C,CS-137   ,NO ,   6.762E-01,   3.141E+00,   5.222E+00,,    0.129
C,CE-139   ,NO ,   4.854E-01,   2.947E+00,   4.944E+00,,    0.098
C,BA-140   ,NO ,   6.889E-01,   1.724E+01,   2.868E+01,,    0.024
C,LA-140   ,NO ,   9.461E-01,   5.357E+00,   8.968E+00,,    0.105
C,CE-141   ,NO ,  -6.722E+00,   6.184E+00,   9.668E+00,,   -0.695
C,CE-144   ,NO ,  -3.426E+01,   2.336E+01,   3.614E+01,,   -0.948
C,EU-152   ,NO ,  -3.493E+00,   1.078E+01,   1.528E+01,,   -0.229
C,EU-154   ,NO ,   6.952E+00,   6.034E+00,   1.024E+01,,    0.679
C,RA-226   ,NO ,  -1.942E+01,   7.229E+01,   1.202E+02,,   -0.162
C,AC-228   ,NO ,   8.861E+00,   1.212E+01,   2.095E+01,,    0.423
C,TH-228   ,NO ,   5.678E+00,   6.895E+00,   1.035E+01,,    0.549
C,TH-232   ,NO ,   8.835E+00,   1.209E+01,   2.089E+01,,    0.423
C,U-235    ,NO ,   1.943E+01,   2.316E+01,   3.864E+01,,    0.503
C,U-238    ,NO ,   4.026E+01,   3.028E+02,   4.998E+02,,    0.081
C,AM-241   ,NO ,  -5.038E+01,   2.828E+01,   4.255E+01,,   -1.184
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 15-JUN-2006 13:48:28.33
TBE10 12892256 HpGe ********** Aquisition Date/Time: 15-JUN-2006 09:19:36.31

LIMS No., Customer Name, Client ID: WG L28875-10 TMI

Sample ID : 10L28875-10
Sample Type : WG
Quantity : 2.99090E+00 L
Start Channel : 80 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 6-JUN-2006 15:35:00.0
Geometry : 103L083004
BKGFILE : 10BG060306MT
Real Time : 0 04:28:42.35
Live time : 0 04:28:39.70

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.51*	61	589	1.45	132.44	7.34E-01	3.79E-03	76.0	1.83E+00
2	1	139.65	97	374	0.94	278.78	1.91E+00	6.04E-03	34.2	1.29E+00
3	1	185.98*	10	393	1.49	371.48	1.77E+00	6.02E-04	409.3	7.60E-01
4	1	197.99*	132	383	2.07	395.53	1.72E+00	8.20E-03	32.2	1.89E+00
5	1	238.62*	131	281	1.81	476.83	1.54E+00	8.15E-03	27.3	1.16E+00
6	1	351.96*	20	234	1.94	703.65	1.17E+00	1.25E-03	166.3	8.29E-01
7	1	583.56*	21	102	2.04	1167.22	7.98E-01	1.31E-03	105.7	6.55E+00
8	1	609.42*	67	90	1.68	1218.98	7.72E-01	4.19E-03	34.9	1.04E+00
9	1	1237.59*	18	26	2.12	2476.80	4.42E-01	1.14E-03	68.4	1.58E+00
10	1	1460.59*	5	24	2.13	2923.52	3.89E-01	3.36E-04	292.2	1.40E+00
11	1	1541.63	24	7	3.44	3085.87	3.73E-01	1.51E-03	28.7	7.72E-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*	3.886E-01	7.331E+00	7.331E+00	584.43
RA-226	186.21	10	3.28*	1.770E+00	9.377E+00	9.378E+00	818.60
TH-228	238.63	131	44.60*	1.538E+00	1.073E+01	1.083E+01	54.55
	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	10	54.00	1.770E+00	5.696E-01	5.696E-01	818.60
	205.31	------	4.70	1.684E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L28875-10

Acquisition date : 15-JUN-2006 09:19:36

Total number of lines in spectrum	11	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	4	36.36%

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	7.331E+00	7.331E+00	42.85E+00	584.43	
RA-226	1600.00Y	1.00	9.377E+00	9.378E+00	76.76E+00	818.60	
TH-228	1.91Y	1.01	1.073E+01	1.083E+01	0.591E+01	54.55	
U-235	7.04E+08Y	1.00	5.696E-01	5.696E-01	46.63E-01	818.60	K
			---	---			
	Total Activity :		2.801E+01	2.811E+01			

Grand Total Activity : 2.801E+01 2.811E+01

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

Unidentified Energy Lines
Sample ID : 10L28875-10

Acquisition date : 15-JUN-2006 09:19:36

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	66.51	61	589	1.45	132.44	128	9	3.79E-03	****	7.34E-01	
1	139.65	97	374	0.94	278.78	275	7	6.04E-03	68.4	1.91E+00	
1	197.99	132	383	2.07	395.53	391	11	8.20E-03	64.5	1.72E+00	
1	351.96	20	234	1.94	703.65	698	12	1.25E-03	****	1.17E+00	
1	583.56	21	102	2.04	1167.22	1161	11	1.31E-03	****	7.98E-01	T
1	609.42	67	90	1.68	1218.98	1213	12	4.19E-03	69.7	7.72E-01	
1	1237.59	18	26	2.12	2476.80	2469	13	1.14E-03	****	4.42E-01	
1	1541.63	24	7	3.44	3085.87	3079	11	1.51E-03	57.4	3.73E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	11	
Number of unidentified lines	7	
Number of lines tentatively identified by NID	4	36.36%

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	7.331E+00	7.331E+00	42.85E+00	584.43	
RA-226	1600.00Y	1.00	9.377E+00	9.378E+00	76.76E+00	818.60	
TH-228	1.91Y	1.01	1.073E+01	1.083E+01	0.591E+01	54.55	
		Total Activity :	2.744E+01	2.754E+01			

Grand Total Activity : 2.744E+01 2.754E+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	7.331E+00	4.285E+01	5.634E+01	0.000E+00	0.130
RA-226	9.378E+00	7.676E+01	1.151E+02	0.000E+00	0.081
TH-228	1.083E+01	5.906E+00	8.993E+00	0.000E+00	1.204

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

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

BE-7	1.942E+01	2.898E+01	4.956E+01	0.000E+00	0.392
NA-24	-4.651E-02	2.862E-02	Half-Life too short		
CR-51	-9.611E+00	3.201E+01	5.124E+01	0.000E+00	-0.188
MN-54	-1.301E+00	3.175E+00	5.038E+00	0.000E+00	-0.258
CO-57	-9.770E-01	2.835E+00	4.674E+00	0.000E+00	-0.209
CO-58	-9.865E-01	3.195E+00	5.113E+00	0.000E+00	-0.193
FE-59	1.080E+00	6.834E+00	1.145E+01	0.000E+00	0.094
CO-60	-4.346E-01	2.986E+00	4.803E+00	0.000E+00	-0.090
ZN-65	5.919E+00	7.288E+00	1.267E+01	0.000E+00	0.467
SE-75	-2.810E+00	4.084E+00	6.541E+00	0.000E+00	-0.430
SR-85	2.309E+01	3.846E+00	7.607E+00	0.000E+00	3.035
Y-88	-6.734E-01	4.154E+00	6.719E+00	0.000E+00	-0.100
NB-94	1.037E+00	3.179E+00	5.338E+00	0.000E+00	0.194
NB-95	1.742E+00	3.305E+00	5.586E+00	0.000E+00	0.312
ZR-95	-5.585E+00	5.683E+00	8.764E+00	0.000E+00	-0.637
MO-99	-1.272E+01	2.041E+02	3.347E+02	0.000E+00	-0.038
RU-103	3.260E+00	3.586E+00	6.179E+00	0.000E+00	0.528
RU-106	-1.010E+01	3.061E+01	4.760E+01	0.000E+00	-0.212
AG-110m	-5.642E-01	2.922E+00	4.802E+00	0.000E+00	-0.117
SN-113	2.112E+00	4.181E+00	7.012E+00	0.000E+00	0.301
SB-124	-6.055E+00	4.424E+00	5.476E+00	0.000E+00	-1.106
SB-125	8.682E-01	8.619E+00	1.414E+01	0.000E+00	0.061
TE-129M	-1.264E+01	3.865E+01	6.176E+01	0.000E+00	-0.205
I-131	6.521E+00	6.685E+00	1.145E+01	0.000E+00	0.569
BA-133	1.963E+00	5.138E+00	7.352E+00	0.000E+00	0.267
CS-134	-3.097E+00	4.421E+00	5.796E+00	0.000E+00	-0.534
CS-136	-8.797E-01	4.600E+00	7.412E+00	0.000E+00	-0.119
CS-137	2.237E+00	3.177E+00	5.474E+00	0.000E+00	0.409
CE-139	2.026E+00	3.057E+00	5.083E+00	0.000E+00	0.399
BA-140	-1.072E+01	1.691E+01	2.698E+01	0.000E+00	-0.397
LA-140	-7.208E-01	5.844E+00	9.442E+00	0.000E+00	-0.076
CE-141	3.831E+00	6.545E+00	9.404E+00	0.000E+00	0.407
CE-144	-1.624E+01	2.587E+01	3.572E+01	0.000E+00	-0.455
EU-152	-3.967E-01	1.116E+01	1.566E+01	0.000E+00	-0.025
EU-154	1.772E+00	5.862E+00	9.814E+00	0.000E+00	0.181
AC-228	1.868E+00	1.210E+01	1.954E+01	0.000E+00	0.096
TH-232	1.862E+00	1.207E+01	1.948E+01	0.000E+00	0.096
U-235	2.634E+01	2.514E+01	3.676E+01	0.000E+00	0.716
U-238	-6.945E+01	3.497E+02	5.655E+02	0.000E+00	-0.123
AM-241	-3.753E+01	2.494E+01	3.637E+01	0.000E+00	-1.032

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A,10L28875-10      ,06/15/2006 13:48,06/06/2006 15:35,   2.991E+00,WG L28875-10 T
B,10L28875-10      ,LIBD                ,06/13/2006 09:42,103L083004
C,K-40     ,YES,   7.331E+00,   4.285E+01,   5.634E+01,,    0.130
C,RA-226   ,YES,   9.378E+00,   7.676E+01,   1.151E+02,,    0.081
C,TH-228   ,YES,   1.083E+01,   5.906E+00,   8.993E+00,,    1.204
C,BE-7     ,NO ,   1.942E+01,   2.898E+01,   4.956E+01,,    0.392
C,CR-51    ,NO ,  -9.611E+00,   3.201E+01,   5.124E+01,,   -0.188
C,MN-54    ,NO ,  -1.301E+00,   3.175E+00,   5.038E+00,,   -0.258
C,CO-57    ,NO ,  -9.770E-01,   2.835E+00,   4.674E+00,,   -0.209
C,CO-58    ,NO ,  -9.865E-01,   3.195E+00,   5.113E+00,,   -0.193
C,FE-59    ,NO ,   1.080E+00,   6.834E+00,   1.145E+01,,    0.094
C,CO-60    ,NO ,  -4.346E-01,   2.986E+00,   4.803E+00,,   -0.090
C,ZN-65    ,NO ,   5.919E+00,   7.288E+00,   1.267E+01,,    0.467
C,SE-75    ,NO ,  -2.810E+00,   4.084E+00,   6.541E+00,,   -0.430
C,SR-85    ,NO ,   2.309E+01,   3.846E+00,   7.607E+00,,    3.035
C,Y-88     ,NO ,  -6.734E-01,   4.154E+00,   6.719E+00,,   -0.100
C,NB-94    ,NO ,   1.037E+00,   3.179E+00,   5.338E+00,,    0.194
C,NB-95    ,NO ,   1.742E+00,   3.305E+00,   5.586E+00,,    0.312
C,ZR-95    ,NO ,  -5.585E+00,   5.683E+00,   8.764E+00,,   -0.637
C,MO-99    ,NO ,  -1.272E+01,   2.041E+02,   3.347E+02,,   -0.038
C,RU-103   ,NO ,   3.260E+00,   3.586E+00,   6.179E+00,,    0.528
C,RU-106   ,NO ,  -1.010E+01,   3.061E+01,   4.760E+01,,   -0.212
C,AG-110m  ,NO ,  -5.642E-01,   2.922E+00,   4.802E+00,,   -0.117
C,SN-113   ,NO ,   2.112E+00,   4.181E+00,   7.012E+00,,    0.301
C,SB-124   ,NO ,  -6.055E+00,   4.424E+00,   5.476E+00,,   -1.106
C,SB-125   ,NO ,   8.682E-01,   8.619E+00,   1.414E+01,,    0.061
C,TE-129M  ,NO ,  -1.264E+01,   3.865E+01,   6.176E+01,,   -0.205
C,I-131    ,NO ,   6.521E+00,   6.685E+00,   1.145E+01,,    0.569
C,BA-133   ,NO ,   1.963E+00,   5.138E+00,   7.352E+00,,    0.267
C,CS-134   ,NO ,  -3.097E+00,   4.421E+00,   5.796E+00,,   -0.534
C,CS-136   ,NO ,  -8.797E-01,   4.600E+00,   7.412E+00,,   -0.119
C,CS-137   ,NO ,   2.237E+00,   3.177E+00,   5.474E+00,,    0.409
C,CE-139   ,NO ,   2.026E+00,   3.057E+00,   5.083E+00,,    0.399
C,BA-140   ,NO ,  -1.072E+01,   1.691E+01,   2.698E+01,,   -0.397
C,LA-140   ,NO ,  -7.208E-01,   5.844E+00,   9.442E+00,,   -0.076
C,CE-141   ,NO ,   3.831E+00,   6.545E+00,   9.404E+00,,    0.407
C,CE-144   ,NO ,  -1.624E+01,   2.587E+01,   3.572E+01,,   -0.455
C,EU-152   ,NO ,  -3.967E-01,   1.116E+01,   1.566E+01,,   -0.025
C,EU-154   ,NO ,   1.772E+00,   5.862E+00,   9.814E+00,,    0.181
C,AC-228   ,NO ,   1.868E+00,   1.210E+01,   1.954E+01,,    0.096
C,TH-232   ,NO ,   1.862E+00,   1.207E+01,   1.948E+01,,    0.096
C,U-235    ,NO ,   2.634E+01,   2.514E+01,   3.676E+01,,    0.716
C,U-238    ,NO ,  -6.945E+01,   3.497E+02,   5.655E+02,,   -0.123
C,AM-241   ,NO ,  -3.753E+01,   2.494E+01,   3.637E+01,,   -1.032
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2508 Quality Lane
Knoxville, TN 37931
865-690-6819 (Phone)

Work Order #: L28870 R1

Exelon

June 23, 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 - L28870
EX001-3ESPTMI-06

06/23/2006 13:45

Sample Receipt

The following samples were received on June 8, 2006 in good condition, unless otherwise noted.

CRA supplied a revised Chain of Custody on June 8. Client IDs were revised.

R1: Revised report to correct the client ID for sample RB-TMI-RB-1-053106-JAS-002; sample was originally reported as WG-TMI-RB-1-053106-JAS-002.

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-8S-060106-JC-024	L28870-1	
WG-TMI-MS-3-060506-JC-033	L28870-2	
RB-TMI-RB-1-053106-JAS-002	L28870-3	
WG-TMI-8S-060106-JC-023	L28870-4	

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

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06/23/2006 13:45

Gamma Spectroscopy

Quality Control

Quality control samples were analyzed as WG4127.

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-102I-060106-JL-075	L28853-1	WG4127-1

H-3

Quality Control

Quality control samples were analyzed as WG4122.

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-110S-053006-JL-067	L28851-11	WG4122-3

TELEDYNE
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Case Narrative - L28870
EX001-3ESPTMI-06

06/23/2006 13:45

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4142.

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-8S-060106-JC-024	L28870-1	WG4142-3

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

06/09/06 07:56

SR #: SR08762

Client: Exelon

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

Project #: EX001-3ESPTMI-06

LIMS #: L28870

Initiated By: BWILKERSON
Init Date: 06/08/06 Receive Date: 06/08/06

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 WG-TMI-8S-060106-JC-023	N	This sample gamma and tritium were not listed on the COC. WG-TMI-8S-060106-JC-024 listed 4 containers on COC.
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	

CHAIN OF CUSTODY RECORD

L28870

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [signature] FOR PRINTED NAME: JOHN SKURAT, EVAN, JASON, MARK

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: GAMMA EMITTERS	STRONTIUM 89/90	TRITIUM							REMARKS
	6/1/06	1638	WG-TMI-85-060106-JC-024	AQU	4	X	X	X							
	6/5/06	1610	WG-TMI-MS-3-060506-JC-033	AQU	2	X	X	X							20mL HNO3
	5/31/06	1230	RB-TMI-RB-1-053106-JAS-002	AQU	2	X	X	X							

TOTAL NUMBER OF CONTAINERS: 8

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [signature]	DATE: 6/7/06 TIME: 1430	RECEIVED BY: ① [signature]	DATE: 6/7/06 TIME: 1430
RELINQUISHED BY: ② [signature]	DATE: 6/7/06 TIME: 1431	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: JOHN SKURAT, JASON CLOSE

RECEIVED FOR LABORATORY BY: B. Wilkerson

DATE: 6-8-06 TIME: 9:30 AM

No CRA 06201

1001 (D) APR 28/97(NF) REV. 0 (F-15)

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

CHAIN OF CUSTODY RECORD

L28870

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-29

SAMPLER'S SIGNATURE: [signature] FOR PRINTED NAME: JOHN SKURAT, EVAN, JASON, MARK

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS: GAMMA EMITTERS	STRONTIUM 89/90	TRITIUM							REMARKS
	6/1/06	1638	WG-TMI-BS-060106-JC-024	AQU	4	X	X	X							
	6/5/06	1610	WG-TMI-MS-3-060506-JC-033	AQU	2	X	X	X							20ml HNO3
	5/31/06	1230	RB-TMI-RB-1-053106-JAS-002	AQU	2	X	X	X							
			WG-TMI-BS-060106-JC-023												

TOTAL NUMBER OF CONTAINERS: 8

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [signature]	DATE: 6/5/06 TIME: 1430	RECEIVED BY: ① [signature]	DATE: 6/7/06 TIME: 1430
RELINQUISHED BY: ② [signature]	DATE: 6/7/06 TIME: 1431	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: JOHN SKURAT, JASON CLOSE

RECEIVED FOR LABORATORY BY: B Wilkerson

DATE: 6-8-06 TIME: 9:30 AM

No CRA 06201

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Thurman, Kim

From: Shaw, Kathy [kshaw@craworld.com]
Sent: Thursday, June 22, 2006 10:02 AM
To: Thurman, Kim
Cc: Larry.Walton@exeloncorp.com
Subject: FW: 45136-29 TMI COCs
Importance: High

Hi Kim,

I sent this to Rebecca yesterday, can you please give me a ETA for completion of these up dates?

Thanks,
Kathy

From: Shaw, Kathy
Sent: Wednesday, June 21, 2006 1:45 PM
To: Rebecca.Charles@tbe.com
Cc: Larry.Walton@exeloncorp.com; 'Joyce.Tomlinson@exeloncorp.com'; Filing
Subject: 45136-29 TMI COCs
Importance: High

Hi Rebecca,

I have attached scanned COCs for changes we made and would like you to up-date in your database. They are addressed by the CRA # in the bottom right corner as follows:

06212 - Add dash between Training-CTR
WG to WS in sample # 041
change L to a 1 in sample # 036

06204 - Remove dash between SWJ
WG to WS in samples # 042 & 035

06202 - Remove "#" in sample #034

03016 - Change all JL to JC

06201 - Change WG to RB in sample # 002

Thanks,

Kathy Shaw - Chemist

Conestoga-Rovers & Associates

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

CHAIN OF CUSTODY RECORD

CONESTOGA-ROVERS & ASSOCIATES

SHIPPED TO (Laboratory Name): TELEDYNE BROWN

REFERENCE NUMBER: 045136-79

SAMPLER'S SIGNATURE: [illegible] PRINTED NAME: [illegible]

SEQ. No.	DATE	TIME	SAMPLE No.	SAMPLE TYPE	No. of Containers	PARAMETERS	REMARKS
	6/1/06	1630	WG-TMI-SS-060106-JC-024		(12)		L28870-1
	6/5/06	1610	[illegible]-TMI MS-3 060506-JC-033				20ml HNO3 -2-
	3/31/06	1230	RB-TMI-RM-1 053106-JC-022		2		-3
			WG-TMI-SS-060106-JC-023				

TOTAL NUMBER OF CONTAINERS: 12

HEALTH/CHEMICAL HAZARDS:

RELINQUISHED BY: ① [illegible]	DATE: [illegible] TIME: 1430	RECEIVED BY: ① [illegible]	DATE: [illegible] TIME: [illegible]
RELINQUISHED BY: ② [illegible]	DATE: [illegible] TIME: 1431	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: [illegible]

RECEIVED FOR LABORATORY BY:

DATE: TIME:

No CRA 06201

1001 (D) APR 28/97(NF) REV. 0 (F-15)

Internal Chain of Custody

Internal Chain of Custody

****

Sample # L28870-1 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28870-1 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28870-2 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28870-2 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28870-3 Containernum 1

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Sample # L28870-3 Containernum 2

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

Relinquish Date Relinquish By Received By
06/08/2006 00:00 099999 Sample Custodian

****

Internal Chain of Custody

****

Sample # L28870-4 Containernum 1

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

Relinquish Date	Relinquish By	Received By	
06/08/2006 00:00		099999	Sample Custodian

****

Sample # L28870-4 Containernum 2

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

Relinquish Date	Relinquish By	Received By	
06/08/2006 00:00		099999	Sample Custodian

06/23/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28870

****

L28870-1 WG WG-TMI-8S-060106-JC-024

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	SO	06/10/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KOJ	06/13/06
Count Room	H-3	KOJ	06/13/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28870-2 WG WG-TMI-MS-3-060506-JC-033

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	SO	06/10/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KOJ	06/13/06
Count Room	H-3	KOJ	06/13/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28870-3 WG RB-TMI-RB-1-053106-JAS-002

Process step	Prod	Analyst	Date
Login		KTHURMAN	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	SO	06/10/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KOJ	06/13/06
Count Room	H-3	KOJ	06/13/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

****

L28870-4 WG WG-TMI-8S-060106-JC-023

Process step	Prod	Analyst	Date
Login		BWILKERSON	06/08/06
Aliquot	GELI	DW	06/10/06
Aliquot	H-3	SO	06/10/06
Aliquot	SR-90 (FAST)	CJF	06/12/06
Count Room	GELI	KOJ	06/13/06
Count Room	H-3	KOJ	06/13/06
Count Room	SR-90 (FAST)	KOJ	06/13/06

Analytical Results Summary

Report of Analysis

06/23/06 13:53

L28870

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-8S-060106-JC-024**
Station:
Description:
LIMS Number: L28870-1

Collect Start: 06/01/2006 16:30
Collect Stop:
Receive Date: 06/08/2006

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	**2.46E+02**	1.09E+02	1.66E+02	pCi/L		10	ml		06/13/06	135	M	+			
TOTAL SR	2018	2.59E-01	7.08E-01	**1.37E+00**	pCi/L		450	ml	06/01/06 16:30	06/13/06	150	M	U			
MN-54	2007	2.84E+00	2.37E+00	**4.07E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
CO-58	2007	1.36E+00	2.51E+00	**4.20E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
FE-59	2007	1.97E+00	5.08E+00	**8.60E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
CO-60	2007	2.08E+00	2.42E+00	**4.15E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
ZN-65	2007	9.25E+00	6.00E+00	**9.31E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
NB-95	2007	8.17E-01	2.55E+00	**4.24E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
ZR-95	2007	-1.59E+00	4.58E+00	**7.40E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
CS-134	2007	2.41E+00	5.75E+00	**4.23E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
CS-137	2007	3.66E-01	2.44E+00	**4.08E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
BA-140	2007	-5.10E+00	1.51E+01	**2.46E+01**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	28800	Sec	U		No	
LA-140	2007	-3.04E+00	5.44E+00	**8.55E+00**	pCi/L		3316.19	ml	06/01/06 16:30	06/13/06	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

06/23/06 13:53

L28870

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-MS-3-060506-JC-033**
Station:
Description:
LIMS Number: L28870-2

Collect Start: 06/05/2006 16:10
Collect Stop:
Receive Date: 06/08/2006

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	9.29E+01	9.46E+01	**1.51E+02**	pCi/L		10	ml		06/13/06	135	M	U			
TOTAL SR	2018	4.38E-02	6.68E-01	**1.32E+00**	pCi/L		450	ml	06/05/06 16:10	06/13/06	150	M	U			
K-40	2007	**6.40E+01**	3.97E+01	3.36E+01	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	+		Yes	
MN-54	2007	1.17E+00	2.13E+00	**3.59E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
CO-58	2007	-2.04E+00	2.20E+00	**3.44E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
FE-59	2007	-1.94E+00	4.50E+00	**7.28E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
CO-60	2007	1.64E+00	2.25E+00	**3.87E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
ZN-65	2007	2.29E+00	4.68E+00	**7.94E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
NB-95	2007	5.91E-01	2.32E+00	**3.85E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
ZR-95	2007	-2.81E+00	4.14E+00	**6.60E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
CS-134	2007	9.44E+00	4.10E+00	**4.00E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U*		No	
CS-137	2007	7.75E-01	2.35E+00	**3.94E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
BA-140	2007	5.36E+00	1.22E+01	**2.02E+01**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	28800	Sec	U		No	
LA-140	2007	2.10E+00	3.81E+00	**6.57E+00**	pCi/L		3024.88	ml	06/05/06 16:10	06/13/06	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
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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

06/23/06 13:53

L28870

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **RB-TMI-RB-1-053106-JAS-002**
Station:
Description:
LIMS Number: L28870-3

Collect Start: 05/31/2006 12:30
Collect Stop:
Receive Date: 06/08/2006

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	1.67E+02	1.07E+02	**1.67E+02**	pCi/L		10	ml		06/13/06	135	M	U		
TOTAL SR	2018	3.96E-01	5.32E-01	**9.97E-01**	pCi/L		450	ml	05/31/06 12:30	06/13/06	150	M	U		
MN-54	2007	-5.48E-01	1.92E+00	**3.12E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
CO-58	2007	1.62E+00	2.08E+00	**3.53E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
FE-59	2007	9.22E-01	4.36E+00	**7.24E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
CO-60	2007	1.24E+00	1.99E+00	**3.40E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
ZN-65	2007	3.54E+00	4.16E+00	**7.11E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
NB-95	2007	6.78E-01	2.09E+00	**3.50E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
ZR-95	2007	6.43E-01	3.55E+00	**5.92E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
CS-134	2007	1.87E+00	3.70E+00	**3.40E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
CS-137	2007	-2.46E-01	2.19E+00	**3.28E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
BA-140	2007	5.27E-02	1.32E+01	**2.18E+01**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	28800	Sec	U		No
LA-140	2007	1.11E+00	4.66E+00	**7.69E+00**	pCi/L		3087.53	ml	05/31/06 12:30	06/13/06	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

06/23/06 13:53

L28870

TELEDYNE BROWN ENGINEERING, INC.
A Teledyne Technologies Company

Conestoga-Rovers & Associates

Kathy Shaw

EX001-3ESPTMI-06

Sample ID: **WG-TMI-8S-060106-JC-023**
Station:
Description:
LIMS Number: L28870-4

Collect Start: 06/01/2006 16:00
Collect Stop:
Receive Date: 06/08/2006

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	**3.49E+02**	1.12E+02	1.67E+02	pCi/L		10	ml		06/13/06	135	M	+			
TOTAL SR	2018	7.25E-01	6.86E-01	**1.25E+00**	pCi/L		450	ml	06/01/06 16:00	06/13/06	150	M	U			
MN-54	2007	4.63E-02	2.07E+00	**3.55E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
CO-58	2007	-1.46E+00	2.29E+00	**3.79E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
FE-59	2007	4.80E+00	4.49E+00	**8.27E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
CO-60	2007	-1.38E-01	2.12E+00	**3.67E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
ZN-65	2007	2.50E+00	5.20E+00	**7.91E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
NB-95	2007	5.55E-02	2.35E+00	**4.03E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
ZR-95	2007	1.85E+00	4.05E+00	**7.10E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
CS-134	2007	3.86E+00	4.78E+00	**3.99E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
CS-137	2007	5.32E-02	2.34E+00	**4.03E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
BA-140	2007	-1.36E+01	1.52E+01	**2.45E+01**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	Sec	U		No	
LA-140	2007	4.75E+00	4.23E+00	**8.10E+00**	pCi/L		3106.71	ml	06/01/06 16:00	06/13/06	21600	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
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 L28870

6/23/2006 1:43:53PM

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
WG4122-1	H-3	WO	06/13/2006 20:30	< 1.790E-02	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
WG4122-2	H-3	WO	06/13/2006 21:33	5.05E+002	4.950E+02	pCi/Total	98.1	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
WG4122-3 L28851-11	H-3	WG	06/13/2006 0:34	< 1.720E+02	< 1.710E+02	pCi/L		<30	**	NE

L28870 H-3

Associated Samples for WG4122

SAMPLENUM	CLIENTID
L28870-1	WG-TMI-8S-060106-JC-024
L28870-2	WG-TMI-MS-3-060506-JC-033
L28870-3	RB-TMI-RB-1-053106-JAS-002
L28870-4	WG-TMI-8S-060106-JC-023

+	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 L28870

6/23/2006 1:43:53PM

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
WG4142-1	TOTAL SR	WO	06/13/2006 21:11	< 6.320E-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
WG4142-2	TOTAL SR	WO	06/13/2006 21:11	5.84E+001	6.890E+01	pCi/Total	118.0	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
WG4142-3 L28870-1	TOTAL SR	WG	06/13/2006 21:11	< 1.370E+00	< 1.540E+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 23 2006, 02:48 pm

Work Order: *L28870* 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
L28870-1		H-3		10 ml			0		13-jun-06 09:26	LS5	594	135	3.32	135	.198		SO
WG-TMI-8S-060106-JC-024																	
Activity: 2.46E+02 * Error: 1.09E+02			MDC: 1.66E+02														
L28870-2		H-3		10 ml			0		13-jun-06 11:45	LS5	509	135	3.32	135	.219		SO
WG-TMI-MS-3-060506-JC-033																	
Activity: 9.29E+01 Error: 9.46E+01			MDC: 1.51E+02 *														
L28870-3		H-3		10 ml			0		13-jun-06 14:04	LS5	547	135	3.32	135	.198		SO
RB-TMI-RB-1-053106-JAS-002																	
Activity: 1.67E+02 Error: 1.07E+02			MDC: 1.67E+02 *														
L28870-4		H-3		10 ml			0		13-jun-06 16:23	LS5	655	135	3.32	135	.198		SO
WG-TMI-8S-060106-JC-023																	
Activity: 3.49E+02 * Error: 1.12E+02			MDC: 1.67E+02														

Raw Data Sheet (rawdata)
Jun 23 2006, 02:48 pm

Work Order: *L28870* 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
L28870-1		TOTAL SR	01-jun-06 16:30	450 ml	13-jun-06 14:45		0	70.70	13-jun-06 21:05	X1A	125	150	308	400	.346	.999	CJF
WG-TMI-8S-060106-JC-024																	
Activity: 2.59E-01 Error: 7.08E-01 MDC: 1.37E+00 *																	
L28870-2		TOTAL SR	05-jun-06 16:10	450 ml	13-jun-06 14:45		0	77.69	13-jun-06 21:05	X1B	130	150	342	400	.343	.999	CJF
WG-TMI-MS-3-060506-JC-033																	
Activity: 4.38E-02 Error: 6.68E-01 MDC: 1.32E+00 *																	
L28870-3		TOTAL SR	31-may-06 12:30	450 ml	13-jun-06 14:45		0	98.12	13-jun-06 21:05	X1D	137	150	312	400	.344	.999	CJF
RB-TMI-RB-1-053106-JAS-002																	
Activity: 3.96E-01 Error: 5.32E-01 MDC: 9.97E-01 *																	
L28870-4		TOTAL SR	01-jun-06 16:00	450 ml	13-jun-06 14:45		0	70.16	13-jun-06 21:05	X2A	126	150	264	400	.354	.999	CJF
WG-TMI-8S-060106-JC-023																	
Activity: 7.25E-01 Error: 6.86E-01 MDC: 1.25E+00 *																	

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 14-JUN-2006 07:42:16.32
TBE10 12892256 HpGe ********** Aquisition Date/Time: 13-JUN-2006 23:42:06.69

LIMS No., Customer Name, Client ID: WG L28870-1 EX TMI

Sample ID : 10L28870-1
Sample Type : WG
Quantity : 3.31620E+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 16:30:00.0
Geometry : 1035L091004
BKGFILE : 10BG060306MT
Real Time : 0 08:00:04.71
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	66.41*	207	836	1.31	132.22	6.37E-01	7.20E-03	27.0	1.98E+00
2	1	92.67*	118	1054	1.98	184.77	1.30E+00	4.11E-03	60.1	9.58E-01
3	1	139.79	185	882	0.96	279.05	1.68E+00	6.41E-03	30.0	1.40E+00
4	1	186.01*	21	565	1.49	371.55	1.59E+00	7.21E-04	240.1	1.14E+00
5	1	198.38*	106	927	1.43	396.30	1.55E+00	3.67E-03	65.1	2.05E+00
6	1	352.01*	73	375	1.54	703.74	1.07E+00	2.52E-03	62.1	1.32E+00
7	1	500.21	81	223	2.90	1000.38	8.10E-01	2.82E-03	42.1	2.81E+00
8	1	595.95	116	167	1.62	1192.00	7.06E-01	4.04E-03	23.3	1.39E+00
9	1	609.19*	71	189	1.74	1218.53	6.94E-01	2.46E-03	47.8	1.97E+00
10	1	911.62*	22	55	1.98	1824.01	5.07E-01	7.68E-04	85.5	3.69E+00
11	1	1120.16*	52	52	2.27	2241.62	4.33E-01	1.81E-03	37.6	7.33E-01
12	1	1460.65*	2	55	1.98	2923.62	3.56E-01	8.16E-05	*****	9.75E-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	2	10.67*	3.559E-01	1.751E+00	1.751E+00	2233.94
RA-226	186.21	21	3.28*	1.594E+00	1.124E+01	1.124E+01	480.12
AC-228	835.50	------	1.75	5.422E-01	------	Line Not Found	------
	911.07	22	27.70*	5.067E-01	4.459E+00	4.478E+00	171.04
U-235	143.76	------	10.50*	1.683E+00	------	Line Not Found	------
	163.35	------	4.70	1.659E+00	------	Line Not Found	------
	185.71	21	54.00	1.594E+00	6.829E-01	6.829E-01	480.12
	205.31	------	4.70	1.524E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 10L28870-1

Acquisition date : 13-JUN-2006 23:42:06

Total number of lines in spectrum	12	
Number of unidentified lines	9	
Number of lines tentatively identified by NID	3	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	1.751E+00	1.751E+00	39.12E+00	2233.94	
RA-226	1600.00Y	1.00	1.124E+01	1.124E+01	5.398E+01	480.12	
AC-228	5.75Y	1.00	4.459E+00	4.478E+00	7.659E+00	171.04	
U-235	7.04E+08Y	1.00	6.829E-01	6.829E-01	32.79E-01	480.12	K
			---	---			
	Total Activity :		1.814E+01	1.816E+01			

Grand Total Activity : 1.814E+01 1.816E+01

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

Nuclide	(pCi/L)	Ided		(pCi/L)		
BE-7	-1.809E+00		2.153E+01	3.570E+01	0.000E+00	-0.051
NA-24	-1.245E+00		1.221E+00	Half-Life too short		
CR-51	-3.847E+01		2.626E+01	4.074E+01	0.000E+00	-0.944
MN-54	2.835E+00		2.370E+00	4.072E+00	0.000E+00	0.696
CO-57	1.798E-01		2.183E+00	3.635E+00	0.000E+00	0.049
CO-58	1.359E+00		2.505E+00	4.195E+00	0.000E+00	0.324
FE-59	1.966E+00		5.079E+00	8.595E+00	0.000E+00	0.229
CO-60	2.076E+00		2.415E+00	4.148E+00	0.000E+00	0.500
ZN-65	9.252E+00		6.000E+00	9.306E+00	0.000E+00	0.994
SE-75	8.648E-01		3.037E+00	5.019E+00	0.000E+00	0.172
SR-85	2.230E+01		3.036E+00	5.812E+00	0.000E+00	3.836
Y-88	3.952E-02		2.802E+00	4.604E+00	0.000E+00	0.009
NB-94	-1.576E-01		2.227E+00	3.669E+00	0.000E+00	-0.043
NB-95	8.167E-01		2.547E+00	4.238E+00	0.000E+00	0.193
ZR-95	-1.587E+00		4.576E+00	7.400E+00	0.000E+00	-0.214
MO-99	-1.417E+02		3.869E+02	6.262E+02	0.000E+00	-0.226
RU-103	3.512E+00		3.196E+00	4.731E+00	0.000E+00	0.742
RU-106	1.376E+01		2.223E+01	3.570E+01	0.000E+00	0.385
AG-110m	1.313E+00		2.227E+00	3.787E+00	0.000E+00	0.347
SN-113	2.716E+00		3.123E+00	5.270E+00	0.000E+00	0.515
SB-124	-3.496E+00		6.432E+00	4.071E+00	0.000E+00	-0.859
SB-125	-3.530E+00		6.471E+00	1.037E+01	0.000E+00	-0.340
TE-129M	-1.268E+00		3.316E+01	5.379E+01	0.000E+00	-0.024
I-131	2.313E-01		6.406E+00	1.060E+01	0.000E+00	0.022
BA-133	7.693E+00		3.584E+00	5.475E+00	0.000E+00	1.405
CS-134	2.407E+00		5.753E+00	4.227E+00	0.000E+00	0.570
CS-136	-1.023E+00		4.176E+00	6.731E+00	0.000E+00	-0.152
CS-137	3.664E-01		2.444E+00	4.082E+00	0.000E+00	0.090
CE-139	-2.201E-02		2.264E+00	3.699E+00	0.000E+00	-0.006
BA-140	-5.100E+00		1.512E+01	2.460E+01	0.000E+00	-0.207
LA-140	-3.039E+00		5.435E+00	8.549E+00	0.000E+00	-0.355
CE-141	2.731E+00		5.433E+00	7.744E+00	0.000E+00	0.353
CE-144	-2.183E+01		1.980E+01	2.712E+01	0.000E+00	-0.805
EU-152	-1.482E+01		8.628E+00	1.127E+01	0.000E+00	-1.315
EU-154	2.220E+00		4.458E+00	7.477E+00	0.000E+00	0.297
TH-228	2.924E+00		4.652E+00	7.255E+00	0.000E+00	0.403
TH-232	4.459E+00	+	7.627E+00	1.511E+01	0.000E+00	0.295
U-235	6.424E+00		1.949E+01	2.767E+01	0.000E+00	0.232
U-238	3.083E+02		2.607E+02	4.523E+02	0.000E+00	0.682
AM-241	-2.385E+01		1.910E+01	2.843E+01	0.000E+00	-0.839

```
A,10L28870-1       ,06/14/2006 07:42,06/01/2006 16:30,   3.316E+00,WG L28870-1 EX
B,10L28870-1       ,LIBD                ,06/13/2006 09:42,1035L091004
C,K-40     ,YES,   1.751E+00,   3.912E+01,   3.748E+01,,    0.047
C,RA-226   ,YES,   1.124E+01,   5.398E+01,   8.206E+01,,    0.137
C,AC-228   ,YES,   4.478E+00,   7.659E+00,   1.384E+01,,    0.323
C,BE-7     ,NO ,  -1.809E+00,   2.153E+01,   3.570E+01,,   -0.051
C,CR-51    ,NO ,  -3.847E+01,   2.626E+01,   4.074E+01,,   -0.944
C,MN-54    ,NO ,   2.835E+00,   2.370E+00,   4.072E+00,,    0.696
C,CO-57    ,NO ,   1.798E-01,   2.183E+00,   3.635E+00,,    0.049
C,CO-58    ,NO ,   1.359E+00,   2.505E+00,   4.195E+00,,    0.324
C,FE-59    ,NO ,   1.966E+00,   5.079E+00,   8.595E+00,,    0.229
C,CO-60    ,NO ,   2.076E+00,   2.415E+00,   4.148E+00,,    0.500
C,ZN-65    ,NO ,   9.252E+00,   6.000E+00,   9.306E+00,,    0.994
C,SE-75    ,NO ,   8.648E-01,   3.037E+00,   5.019E+00,,    0.172
C,SR-85    ,NO ,   2.230E+01,   3.036E+00,   5.812E+00,,    3.836
C,Y-88     ,NO ,   3.952E-02,   2.802E+00,   4.604E+00,,    0.009
C,NB-94    ,NO ,  -1.576E-01,   2.227E+00,   3.669E+00,,   -0.043
C,NB-95    ,NO ,   8.167E-01,   2.547E+00,   4.238E+00,,    0.193
C,ZR-95    ,NO ,  -1.587E+00,   4.576E+00,   7.400E+00,,   -0.214
C,MO-99    ,NO ,  -1.417E+02,   3.869E+02,   6.262E+02,,   -0.226
C,RU-103   ,NO ,   3.512E+00,   3.196E+00,   4.731E+00,,    0.742
C,RU-106   ,NO ,   1.376E+01,   2.223E+01,   3.570E+01,,    0.385
C,AG-110m  ,NO ,   1.313E+00,   2.227E+00,   3.787E+00,,    0.347
C,SN-113   ,NO ,   2.716E+00,   3.123E+00,   5.270E+00,,    0.515
C,SB-124   ,NO ,  -3.496E+00,   6.432E+00,   4.071E+00,,   -0.859
C,SB-125   ,NO ,  -3.530E+00,   6.471E+00,   1.037E+01,,   -0.340
C,TE-129M  ,NO ,  -1.268E+00,   3.316E+01,   5.379E+01,,   -0.024
C,I-131    ,NO ,   2.313E-01,   6.406E+00,   1.060E+01,,    0.022
C,BA-133   ,NO ,   7.693E+00,   3.584E+00,   5.475E+00,,    1.405
C,CS-134   ,NO ,   2.407E+00,   5.753E+00,   4.227E+00,,    0.570
C,CS-136   ,NO ,  -1.023E+00,   4.176E+00,   6.731E+00,,   -0.152
C,CS-137   ,NO ,   3.664E-01,   2.444E+00,   4.082E+00,,    0.090
C,CE-139   ,NO ,  -2.201E-02,   2.264E+00,   3.699E+00,,   -0.006
C,BA-140   ,NO ,  -5.100E+00,   1.512E+01,   2.460E+01,,   -0.207
C,LA-140   ,NO ,  -3.039E+00,   5.435E+00,   8.549E+00,,   -0.355
C,CE-141   ,NO ,   2.731E+00,   5.433E+00,   7.744E+00,,    0.353
C,CE-144   ,NO ,  -2.183E+01,   1.980E+01,   2.712E+01,,   -0.805
C,EU-152   ,NO ,  -1.482E+01,   8.628E+00,   1.127E+01,,   -1.315
C,EU-154   ,NO ,   2.220E+00,   4.458E+00,   7.477E+00,,    0.297
C,TH-228   ,NO ,   2.924E+00,   4.652E+00,   7.255E+00,,    0.403
C,TH-232   ,NO ,   4.459E+00,   7.627E+00,   1.511E+01,,    0.295
C,U-235    ,NO ,   6.424E+00,   1.949E+01,   2.767E+01,,    0.232
C,U-238    ,NO ,   3.083E+02,   2.607E+02,   4.523E+02,,    0.682
C,AM-241   ,NO ,  -2.385E+01,   1.910E+01,   2.843E+01,,   -0.839
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Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 14-JUN-2006 07:42:34.36
TBE11 P-20610B HpGe ********** Aquisition Date/Time: 13-JUN-2006 23:42:09.75

LIMS No., Customer Name, Client ID: WG L28870-2 EX TMI

Sample ID : 11L28870-2
Sample Type : WG
Quantity : 3.02490E+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: 5-JUN-2006 16:10:00.0
Geometry : 113L082304
BKGFILE : 11BG060306MT
Real Time : 0 08:00:10.10
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	0	66.30	197	1621	1.42	131.60	6.86E-01	6.83E-03	36.2	
2	0	92.83*	14	811	1.30	184.82	1.47E+00	4.89E-04	422.0	
3	0	139.54*	116	774	0.94	278.50	1.90E+00	4.02E-03	48.9	
4	0	185.45*	5	740	1.39	370.58	1.80E+00	1.88E-04	*****	
5	0	198.40	201	747	1.53	396.55	1.75E+00	6.97E-03	27.3	
6	0	351.85*	88	378	0.96	704.16	1.20E+00	3.06E-03	52.6	
7	0	596.57	174	188	1.81	1194.37	8.03E-01	6.03E-03	18.8	
8	0	608.79*	117	182	1.27	1218.83	7.90E-01	4.05E-03	29.5	
9	0	911.50*	18	82	1.93	1824.60	5.74E-01	6.18E-04	146.2	
10	0	1460.18*	86	73	1.40	2920.87	3.92E-01	3.00E-03	31.0	

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	86	10.67*	3.920E-01	6.397E+01	6.397E+01	62.09
RA-226	186.21	5	3.28*	1.800E+00	2.850E+00	2.850E+00	2076.05
AC-228	835.50	------	1.75	6.158E-01	------	Line Not Found	------
	911.07	18	27.70*	5.743E-01	3.471E+00	3.481E+00	292.31
U-235	143.76	------	10.50*	1.906E+00	------	Line Not Found	------
	163.35	------	4.70	1.876E+00	------	Line Not Found	------
	185.71	5	54.00	1.800E+00	1.731E-01	1.731E-01	2076.05
	205.31	------	4.70	1.718E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Page : 2
Sample ID : 11L28870-2
Acquisition date : 13-JUN-2006 23:42:09

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	6.397E+01	6.397E+01	3.972E+01	62.09	
RA-226	1600.00Y	1.00	2.850E+00	2.850E+00	59.18E+00	2076.05	
AC-228	5.75Y	1.00	3.471E+00	3.481E+00	10.17E+00	292.31	
U-235	7.04E+08Y	1.00	1.731E-01	1.731E-01	35.94E-01	2076.05	K
			---	---			
	Total Activity :		7.047E+01	7.048E+01			

Grand Total Activity : 7.047E+01 7.048E+01

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

Unidentified Energy Lines
Page : 3
Sample ID : 11L28870-2
Acquisition date : 13-JUN-2006 23:42:09

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
0	66.30	197	1621	1.42	131.60	128	8	6.83E-03	72.3	6.86E-01	
0	92.83	14	811	1.30	184.82	181	9	4.89E-04	****	1.47E+00	
0	139.54	116	774	0.94	278.50	275	9	4.02E-03	97.9	1.90E+00	
0	198.40	201	747	1.53	396.55	392	11	6.97E-03	54.7	1.75E+00	
0	351.85	88	378	0.96	704.16	698	12	3.06E-03	****	1.20E+00	
0	596.57	174	188	1.81	1194.37	1188	15	6.03E-03	37.6	8.03E-01	
0	608.79	117	182	1.27	1218.83	1212	13	4.05E-03	59.0	7.90E-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	6.397E+01	6.397E+01	3.972E+01	62.09	
RA-226	1600.00Y	1.00	2.850E+00	2.850E+00	59.18E+00	2076.05	
AC-228	5.75Y	1.00	3.471E+00	3.481E+00	10.17E+00	292.31	
			---	---			
	Total Activity :		7.030E+01	7.031E+01			

Grand Total Activity : 7.030E+01 7.031E+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	6.397E+01	3.972E+01	3.358E+01	0.000E+00	1.905
RA-226	2.850E+00	5.918E+01	8.827E+01	0.000E+00	0.032
AC-228	3.481E+00	1.017E+01	1.363E+01	0.000E+00	0.255

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

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

BE-7	-3.580E+00	2.056E+01	3.335E+01	0.000E+00	-0.107
NA-24	-1.031E-03	1.444E-02	Half-Life too short		
CR-51	-4.796E+00	2.230E+01	3.669E+01	0.000E+00	-0.131
MN-54	1.172E+00	2.134E+00	3.587E+00	0.000E+00	0.327
CO-57	-9.931E-01	2.138E+00	3.494E+00	0.000E+00	-0.284
CO-58	-2.044E+00	2.201E+00	3.440E+00	0.000E+00	-0.594
FE-59	-1.938E+00	4.502E+00	7.275E+00	0.000E+00	-0.266
CO-60	1.639E+00	2.254E+00	3.869E+00	0.000E+00	0.423
ZN-65	2.292E+00	4.677E+00	7.939E+00	0.000E+00	0.289
SE-75	-1.270E+00	2.988E+00	4.922E+00	0.000E+00	-0.258
SR-85	1.947E+01	2.754E+00	5.313E+00	0.000E+00	3.664
Y-88	1.989E+00	2.444E+00	4.284E+00	0.000E+00	0.464
NB-94	3.308E-01	2.117E+00	3.515E+00	0.000E+00	0.094
NB-95	5.909E-01	2.317E+00	3.852E+00	0.000E+00	0.153
ZR-95	-2.809E+00	4.137E+00	6.595E+00	0.000E+00	-0.426
MO-99	-6.398E+01	1.332E+02	2.145E+02	0.000E+00	-0.298
RU-103	2.667E+00	2.594E+00	4.375E+00	0.000E+00	0.609
RU-106	7.128E+00	2.002E+01	3.366E+01	0.000E+00	0.212
AG-110m	1.840E+00	2.144E+00	3.671E+00	0.000E+00	0.501
SN-113	2.725E-01	2.953E+00	4.866E+00	0.000E+00	0.056
SB-124	5.450E+00	4.362E+00	3.791E+00	0.000E+00	1.437
SB-125	1.292E-01	6.318E+00	1.036E+01	0.000E+00	0.012
TE-129M	-1.080E+00	2.942E+01	4.802E+01	0.000E+00	-0.022
I-131	4.245E-01	4.475E+00	7.393E+00	0.000E+00	0.057
BA-133	5.765E+00	3.561E+00	5.304E+00	0.000E+00	1.087
CS-134	9.440E+00	4.098E+00	4.001E+00	0.000E+00	2.359
CS-136	-2.102E+00	3.063E+00	4.840E+00	0.000E+00	-0.434
CS-137	7.753E-01	2.350E+00	3.938E+00	0.000E+00	0.197
CE-139	2.053E+00	2.206E+00	3.677E+00	0.000E+00	0.558
BA-140	5.355E+00	1.224E+01	2.021E+01	0.000E+00	0.265
LA-140	2.099E+00	3.809E+00	6.565E+00	0.000E+00	0.320
CE-141	-1.544E-01	5.018E+00	6.983E+00	0.000E+00	-0.022
CE-144	-6.565E+00	1.974E+01	2.731E+01	0.000E+00	-0.240
EU-152	-8.923E+00	8.261E+00	1.101E+01	0.000E+00	-0.810
EU-154	-1.732E+00	4.423E+00	7.237E+00	0.000E+00	-0.239
TH-228	6.765E+00	4.855E+00	7.321E+00	0.000E+00	0.924
TH-232	3.471E+00 +	1.015E+01	1.458E+01	0.000E+00	0.238
U-235	3.187E+01	1.940E+01	2.826E+01	0.000E+00	1.128
U-238	1.715E+02	2.331E+02	4.022E+02	0.000E+00	0.426
AM-241	-2.213E+01	3.353E+01	4.535E+01	0.000E+00	-0.488

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A,11L28870-2        ,06/14/2006 07:42,06/05/2006 16:10,   3.025E+00,WG L28870-2 EX
B,11L28870-2        ,LIBD                  ,06/07/2006 09:40,113L082304
C,K-40     ,YES,   6.397E+01,   3.972E+01,   3.358E+01,,    1.905
C,RA-226   ,YES,   2.850E+00,   5.918E+01,   8.827E+01,,    0.032
C,AC-228   ,YES,   3.481E+00,   1.017E+01,   1.363E+01,,    0.255
C,BE-7     ,NO ,  -3.580E+00,   2.056E+01,   3.335E+01,,   -0.107
C,CR-51    ,NO ,  -4.796E+00,   2.230E+01,   3.669E+01,,   -0.131
C,MN-54    ,NO ,   1.172E+00,   2.134E+00,   3.587E+00,,    0.327
C,CO-57    ,NO ,  -9.931E-01,   2.138E+00,   3.494E+00,,   -0.284
C,CO-58    ,NO ,  -2.044E+00,   2.201E+00,   3.440E+00,,   -0.594
C,FE-59    ,NO ,  -1.938E+00,   4.502E+00,   7.275E+00,,   -0.266
C,CO-60    ,NO ,   1.639E+00,   2.254E+00,   3.869E+00,,    0.423
C,ZN-65    ,NO ,   2.292E+00,   4.677E+00,   7.939E+00,,    0.289
C,SE-75    ,NO ,  -1.270E+00,   2.988E+00,   4.922E+00,,   -0.258
C,SR-85    ,NO ,   1.947E+01,   2.754E+00,   5.313E+00,,    3.664
C,Y-88     ,NO ,   1.989E+00,   2.444E+00,   4.284E+00,,    0.464
C,NB-94    ,NO ,   3.308E-01,   2.117E+00,   3.515E+00,,    0.094
C,NB-95    ,NO ,   5.909E-01,   2.317E+00,   3.852E+00,,    0.153
C,ZR-95    ,NO ,  -2.809E+00,   4.137E+00,   6.595E+00,,   -0.426
C,MO-99    ,NO ,  -6.398E+01,   1.332E+02,   2.145E+02,,   -0.298
C,RU-103   ,NO ,   2.667E+00,   2.594E+00,   4.375E+00,,    0.609
C,RU-106   ,NO ,   7.128E+00,   2.002E+01,   3.366E+01,,    0.212
C,AG-110m  ,NO ,   1.840E+00,   2.144E+00,   3.671E+00,,    0.501
C,SN-113   ,NO ,   2.725E-01,   2.953E+00,   4.866E+00,,    0.056
C,SB-124   ,NO ,   5.450E+00,   4.362E+00,   3.791E+00,,    1.437
C,SB-125   ,NO ,   1.292E-01,   6.318E+00,   1.036E+01,,    0.012
C,TE-129M  ,NO ,  -1.080E+00,   2.942E+01,   4.802E+01,,   -0.022
C,I-131    ,NO ,   4.245E-01,   4.475E+00,   7.393E+00,,    0.057
C,BA-133   ,NO ,   5.765E+00,   3.561E+00,   5.304E+00,,    1.087
C,CS-134   ,NO ,   9.440E+00,   4.098E+00,   4.001E+00,,    2.359
C,CS-136   ,NO ,  -2.102E+00,   3.063E+00,   4.840E+00,,   -0.434
C,CS-137   ,NO ,   7.753E-01,   2.350E+00,   3.938E+00,,    0.197
C,CE-139   ,NO ,   2.053E+00,   2.206E+00,   3.677E+00,,    0.558
C,BA-140   ,NO ,   5.355E+00,   1.224E+01,   2.021E+01,,    0.265
C,LA-140   ,NO ,   2.099E+00,   3.809E+00,   6.565E+00,,    0.320
C,CE-141   ,NO ,  -1.544E-01,   5.018E+00,   6.983E+00,,   -0.022
C,CE-144   ,NO ,  -6.565E+00,   1.974E+01,   2.731E+01,,   -0.240
C,EU-152   ,NO ,  -8.923E+00,   8.261E+00,   1.101E+01,,   -0.810
C,EU-154   ,NO ,  -1.732E+00,   4.423E+00,   7.237E+00,,   -0.239
C,TH-228   ,NO ,   6.765E+00,   4.855E+00,   7.321E+00,,    0.924
C,TH-232   ,NO ,   3.471E+00,   1.015E+01,   1.458E+01,,    0.238
C,U-235    ,NO ,   3.187E+01,   1.940E+01,   2.826E+01,,    1.128
C,U-238    ,NO ,   1.715E+02,   2.331E+02,   4.022E+02,,    0.426
C,AM-241   ,NO ,  -2.213E+01,   3.353E+01,   4.535E+01,,   -0.488
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Sec. Review: Analyst: LIMS:

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 14-JUN-2006 07:42:33.43
TBE13 P-10727B HpGe ********** Aquisition Date/Time: 13-JUN-2006 23:42:15.23

LIMS No., Customer Name, Client ID: WG L28870-3 EX TMI

Sample ID : 13L28870-3
Sample Type : WG
Quantity : 3.08750E+00 L
Start Channel : 25 Energy Tol : 1.50000
End Channel : 4090 Pk Srch Sens: 5.00000
MDA Constant : 0.00 Library Used: LIBD

Smple Date: 31-MAY-2006 12:30:00.
Geometry : 133L082404
BKGFILE : 13BG060306MT
Real Time : 0 08:00:08.06
Live time : 0 08:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	1	47.03*	284	673	3.37	94.03	1.70E-01	9.88E-03	18.1	2.22E+01
2	4	63.39*	102	849	1.32	126.76	7.11E-01	3.56E-03	60.7	8.35E+00
3	4	65.93	220	869	1.32	131.84	8.12E-01	7.65E-03	24.6	
4	1	84.63*	34	721	1.38	169.22	1.51E+00	1.17E-03	155.9	1.71E+00
5	1	87.34*	13	564	0.98	174.65	1.59E+00	4.40E-04	326.3	3.08E-01
6	1	139.83*	200	936	0.93	279.63	2.27E+00	6.95E-03	30.9	4.29E+00
7	1	185.88*	82	794	1.32	371.74	2.18E+00	2.84E-03	74.4	9.09E+00
8	1	198.32*	210	795	0.95	396.62	2.12E+00	7.28E-03	28.5	1.31E+00
9	1	238.59*	17	587	1.10	477.16	1.94E+00	5.75E-04	307.4	1.82E+00
10	1	351.49*	32	420	1.91	703.00	1.51E+00	1.11E-03	148.8	3.48E+00
11	1	582.98*	70	233	3.57	1166.10	1.04E+00	2.44E-03	53.5	1.28E+01
12	1	595.74	134	281	1.53	1191.63	1.02E+00	4.66E-03	27.2	6.53E-01
13	1	608.77*	193	207	2.59	1217.70	1.01E+00	6.71E-03	20.9	3.56E+00
14	1	911.04*	25	123	2.01	1822.53	7.36E-01	8.62E-04	122.1	2.44E+00
15	1	969.78*	15	105	1.93	1940.07	7.01E-01	5.06E-04	171.5	4.11E+00
16	1	1461.46*	26	80	2.24	2924.22	5.14E-01	9.10E-04	117.7	2.52E+00
17	1	1765.12*	4	55	2.09	3532.19	4.55E-01	1.45E-04	492.7	1.22E+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	26	10.67*	5.142E-01	1.452E+01	1.452E+01	235.32
RA-226	186.21	82	3.28*	2.178E+00	3.479E+01	3.479E+01	148.71
AC-228	835.50	------	1.75	7.877E-01	------	Line Not Found	------
	911.07	25	27.70*	7.361E-01	3.701E+00	3.717E+00	244.29
TH-228	238.63	17	44.60*	1.938E+00	5.819E-01	5.898E-01	614.78
	240.98	------	3.95	1.927E+00	------	Line Not Found	------
TH-232	583.14	70	30.25	1.040E+00	6.781E+00	6.781E+00	106.97
	911.07	25	27.70*	7.361E-01	3.701E+00	3.701E+00	244.29
	969.11	15	16.60	7.010E-01	3.803E+00	3.803E+00	342.91
U-235	143.76	------	10.50*	2.278E+00	------	Line Not Found	------
	163.35	------	4.70	2.256E+00	------	Line Not Found	------
	185.71	82	54.00	2.178E+00	2.113E+00	2.113E+00	148.71
	205.31	------	4.70	2.093E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 13L28870-3

Acquisition date : 13-JUN-2006 23:42:15

Total number of lines in spectrum	17	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	6	35.29%

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	1.452E+01	1.452E+01	3.417E+01	235.32	
RA-226	1600.00Y	1.00	3.479E+01	3.479E+01	5.174E+01	148.71	
AC-228	5.75Y	1.00	3.701E+00	3.717E+00	9.081E+00	244.29	
TH-228	1.91Y	1.01	5.819E-01	5.898E-01	36.26E-01	614.78	
TH-232	1.41E+10Y	1.00	3.701E+00	3.701E+00	9.040E+00	244.29	
U-235	7.04E+08Y	1.00	2.113E+00	2.113E+00	3.143E+00	148.71	K
			---	---			
	Total Activity :		5.941E+01	5.944E+01			

Grand Total Activity : 5.941E+01 5.944E+01

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

Unidentified Energy Lines
Sample ID : 13L28870-3

Acquisition date : 13-JUN-2006 23:42:15

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
1	47.03	284	673	3.37	94.03	89	8	9.88E-03	36.2	1.70E-01	
4	63.39	102	849	1.32	126.76	121	16	3.56E-03	****	7.11E-01	
4	65.93	220	869	1.32	131.84	121	16	7.65E-03	49.2	8.12E-01	
1	84.63	34	721	1.38	169.22	166	7	1.17E-03	****	1.51E+00	
1	87.34	13	564	0.98	174.65	173	5	4.40E-04	****	1.59E+00	
1	139.83	200	936	0.93	279.63	276	9	6.95E-03	61.7	2.27E+00	
1	198.32	210	795	0.95	396.62	393	10	7.28E-03	57.0	2.12E+00	
1	351.49	32	420	1.91	703.00	698	11	1.11E-03	****	1.51E+00	
1	595.74	134	281	1.53	1191.63	1185	13	4.66E-03	54.3	1.02E+00	
1	608.77	193	207	2.59	1217.70	1212	14	6.71E-03	41.7	1.01E+00	
1	1765.12	4	55	2.09	3532.19	3525	15	1.45E-04	****	4.55E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	17	
Number of unidentified lines	11	
Number of lines tentatively identified by NID	6	35.29%

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	1.452E+01	1.452E+01	3.417E+01	235.32	
RA-226	1600.00Y	1.00	3.479E+01	3.479E+01	5.174E+01	148.71	
TH-228	1.91Y	1.01	5.819E-01	5.898E-01	36.26E-01	614.78	
TH-232	1.41E+10Y	1.00	5.294E+00	5.294E+00	5.190E+00	98.04	
			---	---			
	Total Activity :		5.519E+01	5.520E+01			

Grand Total Activity : 5.519E+01 5.520E+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
K-40	1.452E+01	3.417E+01	2.786E+01	0.000E+00	0.521

TH-228	5.898E-01	3.626E+00	5.112E+00	0.000E+00	0.115
TH-232	5.294E+00	5.190E+00	1.061E+01	0.000E+00	0.499

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-1.916E+01		1.809E+01	2.824E+01	0.000E+00	-0.679
NA-24	2.559E+00		3.606E+00	Half-Life too short		
CR-51	-4.918E+00		2.103E+01	3.483E+01	0.000E+00	-0.141
MN-54	-5.483E-01		1.924E+00	3.123E+00	0.000E+00	-0.176
CO-57	-1.030E+00		1.704E+00	2.758E+00	0.000E+00	-0.374
CO-58	1.623E+00		2.078E+00	3.530E+00	0.000E+00	0.460
FE-59	9.216E-01		4.356E+00	7.236E+00	0.000E+00	0.127
CO-60	1.241E+00		1.988E+00	3.398E+00	0.000E+00	0.365
ZN-65	3.542E+00		4.163E+00	7.111E+00	0.000E+00	0.498
SE-75	4.592E-02		2.523E+00	4.115E+00	0.000E+00	0.011
SR-85	1.756E+01		2.499E+00	4.793E+00	0.000E+00	3.664
Y-88	-1.247E+00		2.212E+00	3.485E+00	0.000E+00	-0.358
NB-94	-1.015E+00		1.799E+00	2.935E+00	0.000E+00	-0.346
NB-95	6.780E-01		2.089E+00	3.498E+00	0.000E+00	0.194
ZR-95	6.434E-01		3.548E+00	5.916E+00	0.000E+00	0.109
MO-99	-3.787E+02		3.969E+02	6.317E+02	0.000E+00	-0.600
RU-103	-1.650E+00		2.180E+00	3.538E+00	0.000E+00	-0.466
RU-106	1.543E+01		1.782E+01	3.009E+01	0.000E+00	0.513
AG-110m	-8.939E-01		1.864E+00	2.980E+00	0.000E+00	-0.300
SN-113	-1.707E+00		2.484E+00	3.999E+00	0.000E+00	-0.427
SB-124	-9.062E-01		4.832E+00	3.449E+00	0.000E+00	-0.263
SB-125	1.556E+00		5.240E+00	8.637E+00	0.000E+00	0.180
TE-129M	2.895E+01		2.661E+01	4.477E+01	0.000E+00	0.647
I-131	7.364E-01		5.593E+00	9.270E+00	0.000E+00	0.079
BA-133	3.003E+00		2.811E+00	4.124E+00	0.000E+00	0.728
CS-134	1.869E+00		3.700E+00	3.402E+00	0.000E+00	0.549
CS-136	-2.931E+00		3.650E+00	5.796E+00	0.000E+00	-0.506
CS-137	-2.459E-01		2.189E+00	3.278E+00	0.000E+00	-0.075
CE-139	7.332E-01		1.823E+00	2.963E+00	0.000E+00	0.247
BA-140	5.274E-02		1.318E+01	2.181E+01	0.000E+00	0.002
LA-140	1.108E+00		4.657E+00	7.689E+00	0.000E+00	0.144
CE-141	5.393E+00		4.387E+00	6.318E+00	0.000E+00	0.854
CE-144	-8.668E-01		1.505E+01	2.189E+01	0.000E+00	-0.040
EU-152	-4.659E+00		6.670E+00	9.143E+00	0.000E+00	-0.510
EU-154	-2.250E+00		3.484E+00	5.633E+00	0.000E+00	-0.399
AC-228	3.717E+00		9.081E+00	1.288E+01	0.000E+00	0.289
U-235	-2.900E+00		1.663E+01	2.194E+01	0.000E+00	-0.132
U-238	1.538E+02		2.268E+02	3.497E+02	0.000E+00	0.440
AM-241	2.073E+01		1.676E+01	2.429E+01	0.000E+00	0.854

```
A,13L28870-3       ,06/14/2006 07:42,05/31/2006 12:30,   3.088E+00,WG L28870-3 EX
B,13L28870-3       ,LIBD                ,06/13/2006 09:43,133L082404
C,K-40     ,YES,   1.452E+01,   3.417E+01,   2.786E+01,,    0.521
C,RA-226   ,YES,   3.479E+01,   5.174E+01,   6.716E+01,,    0.518
C,TH-228   ,YES,   5.898E-01,   3.626E+00,   5.112E+00,,    0.115
C,TH-232   ,YES,   5.294E+00,   5.190E+00,   1.061E+01,,    0.499
C,BE-7     ,NO ,  -1.916E+01,   1.809E+01,   2.824E+01,,   -0.679
C,CR-51    ,NO ,  -4.918E+00,   2.103E+01,   3.483E+01,,   -0.141
C,MN-54    ,NO ,  -5.483E-01,   1.924E+00,   3.123E+00,,   -0.176
C,CO-57    ,NO ,  -1.030E+00,   1.704E+00,   2.758E+00,,   -0.374
C,CO-58    ,NO ,   1.623E+00,   2.078E+00,   3.530E+00,,    0.460
C,FE-59    ,NO ,   9.216E-01,   4.356E+00,   7.236E+00,,    0.127
C,CO-60    ,NO ,   1.241E+00,   1.988E+00,   3.398E+00,,    0.365
C,ZN-65    ,NO ,   3.542E+00,   4.163E+00,   7.111E+00,,    0.498
C,SE-75    ,NO ,   4.592E-02,   2.523E+00,   4.115E+00,,    0.011
C,SR-85    ,NO ,   1.756E+01,   2.499E+00,   4.793E+00,,    3.664
C,Y-88     ,NO ,  -1.247E+00,   2.212E+00,   3.485E+00,,   -0.358
C,NB-94    ,NO ,  -1.015E+00,   1.799E+00,   2.935E+00,,   -0.346
C,NB-95    ,NO ,   6.780E-01,   2.089E+00,   3.498E+00,,    0.194
C,ZR-95    ,NO ,   6.434E-01,   3.548E+00,   5.916E+00,,    0.109
C,MO-99    ,NO ,  -3.787E+02,   3.969E+02,   6.317E+02,,   -0.600
C,RU-103   ,NO ,  -1.650E+00,   2.180E+00,   3.538E+00,,   -0.466
C,RU-106   ,NO ,   1.543E+01,   1.782E+01,   3.009E+01,,    0.513
C,AG-110m  ,NO ,  -8.939E-01,   1.864E+00,   2.980E+00,,   -0.300
C,SN-113   ,NO ,  -1.707E+00,   2.484E+00,   3.999E+00,,   -0.427
C,SB-124   ,NO ,  -9.062E-01,   4.832E+00,   3.449E+00,,   -0.263
C,SB-125   ,NO ,   1.556E+00,   5.240E+00,   8.637E+00,,    0.180
C,TE-129M  ,NO ,   2.895E+01,   2.661E+01,   4.477E+01,,    0.647
C,I-131    ,NO ,   7.364E-01,   5.593E+00,   9.270E+00,,    0.079
C,BA-133   ,NO ,   3.003E+00,   2.811E+00,   4.124E+00,,    0.728
C,CS-134   ,NO ,   1.869E+00,   3.700E+00,   3.402E+00,,    0.549
C,CS-136   ,NO ,  -2.931E+00,   3.650E+00,   5.796E+00,,   -0.506
C,CS-137   ,NO ,  -2.459E-01,   2.189E+00,   3.278E+00,,   -0.075
C,CE-139   ,NO ,   7.332E-01,   1.823E+00,   2.963E+00,,    0.247
C,BA-140   ,NO ,   5.274E-02,   1.318E+01,   2.181E+01,,    0.002
C,LA-140   ,NO ,   1.108E+00,   4.657E+00,   7.689E+00,,    0.144
C,CE-141   ,NO ,   5.393E+00,   4.387E+00,   6.318E+00,,    0.854
C,CE-144   ,NO ,  -8.668E-01,   1.505E+01,   2.189E+01,,   -0.040
C,EU-152   ,NO ,  -4.659E+00,   6.670E+00,   9.143E+00,,   -0.510
C,EU-154   ,NO ,  -2.250E+00,   3.484E+00,   5.633E+00,,   -0.399
C,AC-228   ,NO ,   3.717E+00,   9.081E+00,   1.288E+01,,    0.289
C,U-235    ,NO ,  -2.900E+00,   1.663E+01,   2.194E+01,,   -0.132
C,U-238    ,NO ,   1.538E+02,   2.268E+02,   3.497E+02,,    0.440
C,AM-241   ,NO ,   2.073E+01,   1.676E+01,   2.429E+01,,    0.854
```

Sec. Review: Analyst: LIMS: ✓

VAX/VMS Teledyne Brown Eng. Laboratory Gamma Report: 14-JUN-2006 05:43:05.90
TBE23 03017322 HpGe ********** Aquisition Date/Time: 13-JUN-2006 23:42:42.15

LIMS No., Customer Name, Client ID: WG L28870-4 EX TMI

Sample ID : 23L28870-4
Sample Type : WG
Quantity : 3.10670E+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: 1-JUN-2006 16:00:00.0
Geometry : 233L082404
BKGFILE : 23BG060306MT
Real Time : 0 06:00:14.46
Live time : 0 06:00:00.00

Pk	It	Energy	Area	Bkgnd	FWHM	Channel	%Eff	Cts/Sec	%Err	Fit
1	9	33.67*	53	10	1.06	67.67	8.08E-02	2.47E-03	36.6	2.59E+00
2	9	35.31*	79	130	2.24	70.95	1.07E-01	3.65E-03	53.3	
3	9	38.09*	127	373	2.34	76.49	1.61E-01	5.88E-03	39.5	
4	0	64.56*	206	1200	1.16	129.41	1.09E+00	9.54E-03	37.2	
5	0	92.58*	106	1035	1.27	185.40	1.94E+00	4.89E-03	64.4	
6	0	139.22*	76	817	0.82	278.60	2.32E+00	3.53E-03	73.5	
7	0	185.70*	17	747	1.19	371.50	2.17E+00	7.90E-04	344.5	
8	0	198.08*	130	642	1.23	396.24	2.11E+00	6.03E-03	40.0	
9	0	238.31*	40	492	1.16	476.66	1.90E+00	1.87E-03	115.1	
10	0	350.99*	32	343	1.34	701.89	1.44E+00	1.48E-03	129.8	
11	0	583.44*	49	122	1.28	1166.57	9.71E-01	2.29E-03	53.3	
12	0	595.71	112	185	0.74	1191.11	9.56E-01	5.18E-03	28.7	
13	0	609.10*	10	144	0.94	1217.87	9.40E-01	4.50E-04	304.2	
14	0	1120.29*	15	82	0.74	2240.10	6.16E-01	6.82E-04	159.2	
15	0	1765.34*	1	34	2.02	3530.58	4.38E-01	3.00E-05	*****	

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	17	3.28*	2.174E+00	9.636E+00	9.636E+00	689.09
TH-228	238.63	40	44.60*	1.902E+00	1.915E+00	1.939E+00	230.13
	240.98	------	3.95	1.888E+00	------	Line Not Found	------

Flag: "*" = Keyline

Summary of Nuclide Activity
Sample ID : 23L28870-4

Acquisition date : 13-JUN-2006 23:42:42

Total number of lines in spectrum	15	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	3	20.00%

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	9.636E+00	9.636E+00	66.40E+00	689.09	
TH-228	1.91Y	1.01	1.915E+00	1.939E+00	4.461E+00	230.13	
			---	---			
	Total Activity :		1.155E+01	1.157E+01			

Grand Total Activity : 1.155E+01 1.157E+01

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

Unidentified Energy Lines
Sample ID : 23L28870-4

Acquisition date : 13-JUN-2006 23:42:42

It	Energy	Area	Bkgnd	FWHM	Channel	Left	Pw	Cts/Sec	%Err	%Eff	Flags
9	33.67	53	10	1.06	67.67	65	21	2.47E-03	73.2	8.08E-02	
9	35.31	79	130	2.24	70.95	65	21	3.65E-03	****	1.07E-01	
9	38.09	127	373	2.34	76.49	65	21	5.88E-03	79.1	1.61E-01	
0	64.56	206	1200	1.16	129.41	123	13	9.54E-03	74.3	1.09E+00	
0	92.58	106	1035	1.27	185.40	181	10	4.89E-03	****	1.94E+00	
0	139.22	76	817	0.82	278.60	274	9	3.53E-03	****	2.32E+00	
0	198.08	130	642	1.23	396.24	392	10	6.03E-03	80.1	2.11E+00	
0	350.99	32	343	1.34	701.89	696	12	1.48E-03	****	1.44E+00	
0	583.44	49	122	1.28	1166.57	1162	11	2.29E-03	****	9.71E-01	T
0	595.71	112	185	0.74	1191.11	1184	16	5.18E-03	57.4	9.56E-01	
0	609.10	10	144	0.94	1217.87	1212	12	4.50E-04	****	9.40E-01	
0	1120.29	15	82	0.74	2240.10	2233	17	6.82E-04	****	6.16E-01	
0	1765.34	1	34	2.02	3530.58	3521	17	3.00E-05	****	4.38E-01	

Flags: "T" = Tentatively associated

Summary of Nuclide Activity

Total number of lines in spectrum	15	
Number of unidentified lines	12	
Number of lines tentatively identified by NID	3	20.00%

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
RA-226	1600.00Y	1.00	9.636E+00	9.636E+00	66.40E+00	689.09	
TH-228	1.91Y	1.01	1.915E+00	1.939E+00	4.461E+00	230.13	
	Total Activity :		--- 1.155E+01	--- 1.157E+01			

Grand Total Activity : 1.155E+01 1.157E+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
RA-226	9.636E+00	6.640E+01	9.507E+01	0.000E+00	0.101
TH-228	1.939E+00	4.461E+00	6.979E+00	0.000E+00	0.278

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

Nuclide	Key-Line Activity (pCi/L)	K.L. Ided	Act error	MDA (pCi/L)	MDA error	Act/MDA
BE-7	-3.414E+00		2.130E+01	3.566E+01	0.000E+00	-0.096
NA-24	-7.256E-01		1.039E+00	Half-Life too short		
K-40	-3.372E+01		3.331E+01	6.185E+01	0.000E+00	-0.545
CR-51	-2.729E+01		2.592E+01	4.267E+01	0.000E+00	-0.640
MN-54	4.628E-02		2.070E+00	3.546E+00	0.000E+00	0.013
CO-57	-9.038E-01		2.381E+00	3.962E+00	0.000E+00	-0.228
CO-58	-1.456E+00		2.288E+00	3.788E+00	0.000E+00	-0.384
FE-59	4.803E+00		4.488E+00	8.272E+00	0.000E+00	0.581
CO-60	-1.382E-01		2.122E+00	3.667E+00	0.000E+00	-0.038
ZN-65	2.496E+00		5.196E+00	7.914E+00	0.000E+00	0.315
SE-75	4.702E+00		3.197E+00	5.624E+00	0.000E+00	0.836
SR-85	1.503E+01		2.840E+00	5.463E+00	0.000E+00	2.752
Y-88	-2.153E+00		2.417E+00	3.949E+00	0.000E+00	-0.545
NB-94	1.003E+00		2.026E+00	3.550E+00	0.000E+00	0.283
NB-95	5.548E-02		2.351E+00	4.029E+00	0.000E+00	0.014
ZR-95	1.846E+00		4.052E+00	7.103E+00	0.000E+00	0.260
MO-99	2.983E+02		3.578E+02	6.372E+02	0.000E+00	0.468
RU-103	2.104E+00		2.711E+00	4.693E+00	0.000E+00	0.448
RU-106	-9.453E+00		1.913E+01	3.226E+01	0.000E+00	-0.293
AG-110m	-1.394E+00		2.174E+00	3.631E+00	0.000E+00	-0.384
SN-113	1.639E+00		3.062E+00	5.263E+00	0.000E+00	0.311
SB-124	1.230E+00		5.358E+00	4.121E+00	0.000E+00	0.299
SB-125	-2.027E+00		6.320E+00	1.055E+01	0.000E+00	-0.192
TE-129M	1.468E+01		3.052E+01	5.243E+01	0.000E+00	0.280
I-131	-3.588E+00		6.484E+00	1.079E+01	0.000E+00	-0.333
BA-133	4.791E+00		3.481E+00	5.302E+00	0.000E+00	0.904
CS-134	3.863E+00		4.775E+00	3.991E+00	0.000E+00	0.968
CS-136	2.295E+00		3.868E+00	6.818E+00	0.000E+00	0.337
CS-137	5.323E-02		2.344E+00	4.029E+00	0.000E+00	0.013
CE-139	8.679E-03		2.454E+00	4.086E+00	0.000E+00	0.002
BA-140	-1.363E+01		1.517E+01	2.453E+01	0.000E+00	-0.556
LA-140	4.750E+00		4.232E+00	8.096E+00	0.000E+00	0.587
CE-141	3.268E+00		6.065E+00	8.714E+00	0.000E+00	0.375
CE-144	-7.260E+00		2.161E+01	3.041E+01	0.000E+00	-0.239
EU-152	-3.749E-01		8.126E+00	1.162E+01	0.000E+00	-0.032
EU-154	-1.507E+00		4.875E+00	8.121E+00	0.000E+00	-0.185
AC-228	3.149E+00		9.099E+00	1.409E+01	0.000E+00	0.223
TH-232	3.136E+00		9.062E+00	1.404E+01	0.000E+00	0.223
U-235	-1.933E+00		2.275E+01	3.108E+01	0.000E+00	-0.062
U-238	-1.146E+02		2.444E+02	3.868E+02	0.000E+00	-0.296
AM-241	3.017E+00		1.548E+01	2.174E+01	0.000E+00	0.139

```
A,23L28870-4       ,06/14/2006 05:43,06/01/2006 16:00,   3.107E+00,WG L28870-4 EX
B,23L28870-4       ,LIBD                ,06/01/2006 10:14,233L082404
C,RA-226   ,YES,   9.636E+00,   6.640E+01,   9.507E+01,,    0.101
C,TH-228   ,YES,   1.939E+00,   4.461E+00,   6.979E+00,,    0.278
C,BE-7     ,NO ,  -3.414E+00,   2.130E+01,   3.566E+01,,   -0.096
C,K-40     ,NO ,  -3.372E+01,   3.331E+01,   6.185E+01,,   -0.545
C,CR-51    ,NO ,  -2.729E+01,   2.592E+01,   4.267E+01,,   -0.640
C,MN-54    ,NO ,   4.628E-02,   2.070E+00,   3.546E+00,,    0.013
C,CO-57    ,NO ,  -9.038E-01,   2.381E+00,   3.962E+00,,   -0.228
C,CO-58    ,NO ,  -1.456E+00,   2.288E+00,   3.788E+00,,   -0.384
C,FE-59    ,NO ,   4.803E+00,   4.488E+00,   8.272E+00,,    0.581
C,CO-60    ,NO ,  -1.382E-01,   2.122E+00,   3.667E+00,,   -0.038
C,ZN-65    ,NO ,   2.496E+00,   5.196E+00,   7.914E+00,,    0.315
C,SE-75    ,NO ,   4.702E+00,   3.197E+00,   5.624E+00,,    0.836
C,SR-85    ,NO ,   1.503E+01,   2.840E+00,   5.463E+00,,    2.752
C,Y-88     ,NO ,  -2.153E+00,   2.417E+00,   3.949E+00,,   -0.545
C,NB-94    ,NO ,   1.003E+00,   2.026E+00,   3.550E+00,,    0.283
C,NB-95    ,NO ,   5.548E-02,   2.351E+00,   4.029E+00,,    0.014
C,ZR-95    ,NO ,   1.846E+00,   4.052E+00,   7.103E+00,,    0.260
C,MO-99    ,NO ,   2.983E+02,   3.578E+02,   6.372E+02,,    0.468
C,RU-103   ,NO ,   2.104E+00,   2.711E+00,   4.693E+00,,    0.448
C,RU-106   ,NO ,  -9.453E+00,   1.913E+01,   3.226E+01,,   -0.293
C,AG-110m  ,NO ,  -1.394E+00,   2.174E+00,   3.631E+00,,   -0.384
C,SN-113   ,NO ,   1.639E+00,   3.062E+00,   5.263E+00,,    0.311
C,SB-124   ,NO ,   1.230E+00,   5.358E+00,   4.121E+00,,    0.299
C,SB-125   ,NO ,  -2.027E+00,   6.320E+00,   1.055E+01,,   -0.192
C,TE-129M  ,NO ,   1.468E+01,   3.052E+01,   5.243E+01,,    0.280
C,I-131    ,NO ,  -3.588E+00,   6.484E+00,   1.079E+01,,   -0.333
C,BA-133   ,NO ,   4.791E+00,   3.481E+00,   5.302E+00,,    0.904
C,CS-134   ,NO ,   3.863E+00,   4.775E+00,   3.991E+00,,    0.968
C,CS-136   ,NO ,   2.295E+00,   3.868E+00,   6.818E+00,,    0.337
C,CS-137   ,NO ,   5.323E-02,   2.344E+00,   4.029E+00,,    0.013
C,CE-139   ,NO ,   8.679E-03,   2.454E+00,   4.086E+00,,    0.002
C,BA-140   ,NO ,  -1.363E+01,   1.517E+01,   2.453E+01,,   -0.556
C,LA-140   ,NO ,   4.750E+00,   4.232E+00,   8.096E+00,,    0.587
C,CE-141   ,NO ,   3.268E+00,   6.065E+00,   8.714E+00,,    0.375
C,CE-144   ,NO ,  -7.260E+00,   2.161E+01,   3.041E+01,,   -0.239
C,EU-152   ,NO ,  -3.749E-01,   8.126E+00,   1.162E+01,,   -0.032
C,EU-154   ,NO ,  -1.507E+00,   4.875E+00,   8.121E+00,,   -0.185
C,AC-228   ,NO ,   3.149E+00,   9.099E+00,   1.409E+01,,    0.223
C,TH-232   ,NO ,   3.136E+00,   9.062E+00,   1.404E+01,,    0.223
C,U-235    ,NO ,  -1.933E+00,   2.275E+01,   3.108E+01,,   -0.062
C,U-238    ,NO ,  -1.146E+02,   2.444E+02,   3.868E+02,,   -0.296
C,AM-241   ,NO ,   3.017E+00,   1.548E+01,   2.174E+01,,    0.139
```

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

Work Order #: L28846

Exelon TMI

June 13, 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 - L28846
EX001-3ESPTMI-06

06/13/2006 15:09

Sample Receipt

The following samples were received on June 2, 2006 in good condition, unless otherwise noted.

CRA supplied revised Chain of Custodies with revised client IDs.

Cross Reference Table

Client ID	Laboratory ID	Station ID(if applicable)
WG-TMI-MS-7-053106-JAS-015	L28846-1	
WG-TMI-MS-1-053106-JAS-011	L28846-2	
WG-TMI-48N-053106-JC-009	L28846-3	
WG-TMI-48N-053106-JC-010	L28846-4	

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 - L28846
EX001-3ESPTMI-06

06/13/2006 15:09

Gamma Spectroscopy

Quality Control

Quality control samples were analyzed as WG4118.

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-7-053106-JAS-015	L28846-1	WG4118-1

H-3

Quality Control

Quality control samples were analyzed as WG4110.

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-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 - L28846
EX001-3ESPTMI-06

06/13/2006 15:09

TOTAL SR

Quality Control

Quality control samples were analyzed as WG4135.

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-7-053106-JAS-015	L28846-1	WG4135-3

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 09:52

SR #: SR08728

Client: Exelon

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

Project #: EX001-3ESPTMI-06

LIMS #: L28846

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

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	

GM REALM ENCORE

JMC 6/1/06

CHAIN-OF-CUSTODY / Analytical Request Document

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

L28846

PAGE 1 OF 1

ID # № 03017

SSOW Ref. Code:

Required Client Information:

Company: CRA	Report To: Kathy SHAW
Address: 45 Farmington Valley Rd, Farmington, CT 06062	Copy To: Jeff Lambert
	Invoice To:
	P.O.:
Phone: 1-860-747-1800	Project Name: TMI-Exelon
Fax: 1-860-747-1980	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	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Tritium	Gamma Emitters	Strontium 8960	Remarks/Lab ID
1. WG-TMI-MS-7-053106-JAS-015	WG	5/31/06	1605	2	1			1			X	X	X	
2. WG-TMI-MS-1-053106-JAS-011	WG	5/31/06	1125	2	1			1			X	X	X	
3. WG-TMI-48N-053106-JC-009	WG	↓	0950	2	1			1			X	X	X	24 ml's added of HNO3
4. ↓ -010	WG	↓	0955	2	1			1			X	X	X	
5.														
6.														CRA Contact: Kathy SHAW
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
FED EX	1	Jim McClure / CRA	6/1/06	1625	[signature]	6/1/06	1625
AIRBILL NO. 8484607605 45		[signature]	6/1/06	1626			

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: [signature] Date: 6/1/06

Pat Marshall 6/2/06

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

L28846
LIMS Corrected 6/8/06
RLC

REVISED

L28846

HM REALM ENCORE

TMC 6/1/06

CHAIN-OF-CUSTODY / Analytical Request Document

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

PAGE 1 OF 1

Required Client Information:

Company: CRA	Report To: Kurtley SHAW
Address: [illegible]	Copy To: Jeff Van Arsdalen
[illegible]	Invoice To:
[illegible] CT 06062	P.O.:
Phone: 1-860-747-[illegible]	Project Name: TMI-1 [illegible]
Fax: 1-860-747-[illegible]	Project Number: 45136 29
E-mail: KSHAW@CRA[illegible].COM	

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

ID# NC 03017

SSOW Ref. Code:

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	Preservative: Unpreserved	HCl	H2SO4	HNO3	NaOH	Other	Analysis and Method: TC, tritium	Ammonia Gamma Emitters	Strontium 89/90	Remarks/Lab ID
1	WG-TMI-MS-7-053106-JAS-015	WG	5/31/06	1605	2	1			1			X	X	X	
2	WG-TMI-MS-1-053106-JAS-011	WG	5/31/06	1125	2	1			1			X	X	X	
3	WG-TMI-48N-053106-JG-009	WG	↓	0950	2	1			1			X	X	X	
4	↓ -010	WG	↓	0955	2	1			1			X	X	X	24 mls added of HNO3
5															
6															
7															
8															CRA Contact: Kurtley SHAW
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	J. M. Allen / CRA	6/1/06	1625	Swift / [illegible]	6/1/06	1625
AIRBILL NO 8[illegible]1602760054		[illegible] 6/1/06	6/1/06	1626			

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. Allen Date: 6/1/06

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

Internal Chain of Custody

06/13/06 14:30

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L28846-1 Containernum 1

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

Relinquish Date	Relinquish By		Received By	
06/02/2006 00:00			099999	Sample Custodian
06/08/2006 14:01	099999	Sample Custodian	029709	Susan Ogletree
06/08/2006 17:22	029709	Susan Ogletree	099999	Sample Custodian
06/09/2006 15:39	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:40	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:40	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:40	029728	Lauren Larsen	030854	Donna Webb

****

Sample # L28846-1 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/02/2006 00:00			099999	Sample Custodian

****

Sample # L28846-2 Containernum 1

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

Relinquish Date	Relinquish By		Received By	
06/02/2006 00:00			099999	Sample Custodian
06/08/2006 14:01	099999	Sample Custodian	029709	Susan Ogletree
06/08/2006 17:22	029709	Susan Ogletree	099999	Sample Custodian
06/09/2006 15:39	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:40	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:40	029728	Lauren Larsen	030854	Donna Webb
06/09/2006 15:40	030854	Donna Webb	099999	Sample Custodian

****

Sample # L28846-2 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/02/2006 00:00			099999	Sample Custodian

****

Sample # L28846-3 Containernum 1

Prod	Analyst

06/13/06 14:30

Teledyne Brown Engineering
Internal Chain of Custody

****

Sample # L28846-3 Containernum 1

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

Relinquish Date	Relinquish By		Received By	
06/02/2006 00:00			099999	Sample Custodian
06/08/2006 14:01	099999	Sample Custodian	029709	Susan Ogletree
06/08/2006 17:22	029709	Susan Ogletree	099999	Sample Custodian
06/09/2006 15:39	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:40	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:40	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:40	029728	Lauren Larsen	030854	Donna Webb

****

Sample # L28846-3 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/02/2006 00:00			099999	Sample Custodian

****

Sample # L28846-4 Containernum 1

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

Relinquish Date	Relinquish By		Received By	
06/02/2006 00:00			099999	Sample Custodian
06/08/2006 14:01	099999	Sample Custodian	029709	Susan Ogletree
06/08/2006 17:22	029709	Susan Ogletree	099999	Sample Custodian
06/09/2006 15:39	099999	Sample Custodian	030854	Donna Webb
06/09/2006 15:40	030854	Donna Webb	029728	Lauren Larsen
06/09/2006 15:40	030854	Donna Webb	099999	Sample Custodian
06/09/2006 15:40	029728	Lauren Larsen	030854	Donna Webb

****

Sample # L28846-4 Containernum 2

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

Relinquish Date	Relinquish By		Received By	
06/02/2006 00:00			099999	Sample Custodian

06/13/06

Teledyne Brown Engineering
Internal Chain of Custody
Supplemental Sheet

L28846

****

L28846-1 **WG** **WG-TMI-MS-7-053106-JAS-015**

Process step	Prod	Analyst	Date
Login		PMARSHALL	06/02/06
Aliquot	H-3	SO	06/08/06
Aliquot	SR-90 (FAST)	LCB	06/09/06
Aliquot	GELI	DW	06/10/06
Count Room	GELI	MVW	06/11/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	KOJ	06/12/06

****

L28846-2 **WG** **WG-TMI-MS-1-053106-JAS-011**

Process step	Prod	Analyst	Date
Login		PMARSHALL	06/02/06
Aliquot	H-3	SO	06/08/06
Aliquot	SR-90 (FAST)	LCB	06/09/06
Aliquot	GELI	DW	06/10/06
Count Room	GELI	MVW	06/11/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	KOJ	06/12/06

****

L28846-3 **WG** **WG-TMI-48N-053106-JC-009**

Process step	Prod	Analyst	Date
Login		RCHARLES	06/02/06
Aliquot	H-3	SO	06/08/06
Aliquot	SR-90 (FAST)	LCB	06/09/06
Aliquot	GELI	DW	06/10/06
Count Room	GELI	KOJ	06/11/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	KOJ	06/12/06

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L28846-4 **WG** **WG-TMI-48N-053106-JC-010**

Process step	Prod	Analyst	Date
Login		RCHARLES	06/02/06
Aliquot	H-3	SO	06/08/06
Aliquot	SR-90 (FAST)	LCB	06/09/06
Aliquot	GELI	DW	06/10/06
Count Room	GELI	KOJ	06/11/06
Count Room	H-3	KPW	06/11/06
Count Room	SR-90 (FAST)	KOJ	06/12/06