

JAF ENVIRONMENTAL LABORATORY			
Tritium Activity Calculation			
Sample ID	U3-1	ELMS #:	20053400
Sample On Date / Time :	10/06/05 @ 12:00	Client ID No.	IP-05-610
Sample Off Date / Time :	10/06/05 @ 12:00	Run No.	05-68
Sample Count Date:	10/13/05 @ 12:00	Sample Distilled:	YES
Elapsed Time (count date to off date) yrs	0.02	Decay Factor:	0.9989
Background Data			
Background Gross counts:	1107.87		
Background count time (minutes)	120		
Background Counts, CPM:	9.23		
Background DPM	25.88		
Critical Level (CL) CPM	0.65		
Sample Data			
Sample Gross counts:	1272		
Sample Count Time (minutes)	120		
Sample CPM:	10.60		
Sample Net CPM:	1.37		
Sample DPM:	3.70		
sample volume (L)	0.004		
LLD Calc			
Background Counting Efficiency	0.357	CL Ratio=	2.12
LLD value (pCi/L)	<415	Act/Error Ratio=	3.3
Activity Calc			
Sample Counting Efficiency	0.358		
Sample Activity (pCi/L) ± 1 sigma	417 ±	128	
Comments:			
Note: If CL ratio is <1.0 OR Act/Error Ratio is <2.7 then the LLD value is reported as a "Less Than" Activity.			
Technician:	<i>P. Pierson / w/ [Signature]</i>	Date:	10/17/05
Supervisor review:	B. Gorman <i>[Signature]</i>	Date:	10/17/05

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JAF ENVIRONMENTAL LABORATORY			
Tritium Activity Calculation			
Sample ID	U3-2	ELMS #:	20053401
Sample On Date / Time :	10/06/05 @ 12:00	Client ID No.	IP-05-611
Sample Off Date / Time :	10/08/05 @ 12:00	Run No.	05-68
Sample Count Date:	10/13/05 @ 12:00	Sample Distilled:	YES
Elapsed Time (count date to off date) yrs	0.02	Decay Factor:	0.9989
Background Data			
Background Gross counts:	1107.87		
Background count time (minutes)	120		
Background Counts, CPM:	9.23		
Background DPM	25.88		
Critical Level (CL) CPM	0.65		
Sample Data			
Sample Gross counts:	1476		
Sample Count Time (minutes)	120		
Sample CPM:	12.30		
Sample Net CPM:	3.07		
Sample DPM:	8.52		
sample volume (L)	0.004		
LLD Calculation			
Background Counting Efficiency	0.357	CL Ratio=	4.75
LLD value (pCi/L)	<415	Act/Error Ratio=	7.2
Activity Calculation			
Sample Counting Efficiency	0.358		
Sample Activity (pCi/L) ± 1 sigma	.960 ±	134	
Comments:			
Note: If CL ratio is <1.0 OR Act/Error Ratio is <2.7 then the LLD value is reported as a "Less Than" Activity.			
Technician:	<i>P. HENNER / W. P. [Signature]</i>	Date:	10/17/05
Supervisor review:	B. Gorman <i>B. Gorman [Signature]</i>	Date:	10/17/05

JAF ENVIRONMENTAL LABORATORY			
Tritium Activity Calculation			
Sample ID	U3-3	ELMS #:	20053402
Sample On Date / Time :	10/06/05 @ 12:00	Client ID No.	IP-05-612
Sample Off Date / Time :	10/06/05 @ 12:00	Run No.	05-68
Sample Count Date:	10/13/05 @ 12:00	Sample Distilled:	YES
Elapsed Time (count date to off date) yrs	0.02	Decay Factor:	0.9989
Background Data			
Background Gross counts:	1107.87		
Background count time (minutes)	120		
Background Counts, CPM:	9.23		
Background DPM	25.88		
Critical Level (CL) CPM	0.65		
Sample Data			
Sample Gross counts:	1277.6		
Sample Count Time (minutes)	120		
Sample CPM:	10.65		
Sample Net CPM:	1.41		
Sample DPM:	3.89		
sample volume (L)	0.004		
LLD Calculation			
Background Counting Efficiency	0.357	CL Ratio=	2.19
LLD value (pCi/L)	<415	Act/Error Ratio=	3.4
Activity Calculation			
Sample Counting Efficiency	0.358		
Sample Activity (pCi/L) ± 1 sigma	439 ±	128	
Comments:			
Note: If CL ratio is <1.0 OR Act/Error Ratio is <2.7 then the LLD value is reported as a "Less Than" Activity.			
Technician:	<u>PITENGER / W.P.</u>	Date:	10/17/05
Supervisor review:	<u>B. Gorman</u>	Date:	10/17/05

JAF ENVIRONMENTAL LABORATORY			
Tritium Activity Calculation			
Sample ID	U3-T1	ELMS #:	20053403
Sample On Date / Time :	10/07/05 @ 12:00	Client ID No.	IP-05-613
Sample Off Date / Time :	10/07/05 @ 12:00	Run No.	05-68
Sample Count Date:	10/13/05 @ 12:00	Sample Distilled:	YES
Elapsed Time (count date to off date) yrs	0.02	Decay Factor:	0.9991
Background Data			
Background Gross counts:	1107.87		
Background count time (minutes)	120		
Background Counts, CPM:	9.23		
Background DPM	25.88		
Critical Level (CL) CPM	0.65		
Sample Data			
Sample Gross counts:	1708.8		
Sample Count Time (minutes)	120		
Sample CPM:	14.24		
Sample Net CPM:	5.01		
Sample DPM:	14.10		
sample volume (L)	0.004		
LLD Calcul			
Background Counting Efficiency	0.357	CL Ratio=	7.76
LLD value (pCi/L)	<415	Act/Error Ratio=	11.4
Activity Calc			
Sample Counting Efficiency	0.356		
Sample Activity (pCi/L) ± 1 sigma	1589 ±		140
Comments:			
Note: If CL ratio is <1.0 OR Act/Error Ratio is <2.7 then the LLD value is reported as a "Less Than" Activity.			
Technician:	<i>PITENGER / W. Pitten</i>	Date:	10/17/05
Supervisor review:	B. Gorman <i>B. Gorman</i>	Date:	10/17/05

JAF ENVIRONMENTAL LABORATORY			
Tritium Activity Calculation			
Sample ID	U3-T2	ELMS #:	20053404
Sample On Date / Time :	10/07/05 @ 12:00	Client ID No.	IP-05-614
Sample Off Date / Time :	10/07/05 @ 12:00	Run No.	05-68
Sample Count Date:	10/13/05 @ 12:00	Sample Distilled:	YES
Elapsed Time (count date to off date) yrs	0.02	Decay Factor:	0.9991
Background Data			
Background Gross counts:	1107.87		
Background count time (minutes)	120		
Background Counts, CPM:	9.23		
Background DPM	25.88		
Critical Level (CL) CPM	0.65		
Sample Data			
Sample Gross counts:	1379.2		
Sample Count Time (minutes)	120		
Sample CPM:	11.49		
Sample Net CPM:	2.26		
Sample DPM:	6.24		
sample volume (L)	0.004		
LLD Calculations			
Background Counting Efficiency	0.357	CL Ratio=	3.50
LLD value (pCi/L)	<415	Act/Error Ratio=	5.4
Activity Calculations			
Sample Counting Efficiency	0.358		
Sample Activity (pCi/L) ± 1 sigma	703	±	131
Comments:			
Note: If CL ratio is <1.0 OR Act/Error Ratio is <2.7 then the LLD value is reported as a "Less Than" Activity.			
Technician:	<i>PITENGER / W. Pittenger</i>		Date: 10/17/05
Supervisor review:	B. Gorman	<i>B. Gorman</i>	Date: 10/17/05

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JAF ENVIRONMENTAL LABORATORY			
Tritium Activity Calculation			
Sample ID	QC ST	ELMS #:	NA
Sample On Date / Time :	03/14/02 @ 12:00	Client ID No.	E3050
Sample Off Date / Time :	03/14/02 @ 12:00	Run No.	05-68
Sample Count Date:	10/13/05 @ 12:00	Sample Distilled:	NO
Elapsed Time (count date to off date) yrs	3.59	Decay Factor:	0.8174
Background Data			
Background Gross counts:	1107.87		
Background count time (minutes)	120		
Background Counts, CPM:	9.23		
Background DPM	25.88		
Critical Level (CL) CPM	0.65		
Sample Data			
Sample Gross counts:	4347.2		
Sample Count Time (minutes)	120		
Sample CPM:	36.23		
Sample Net CPM:	26.99		
Sample DPM:	75.26		
sample volume (L)	0.004		
LLD Calculations			
Background Counting Efficiency	0.357	CL Ratio=	41.83
LLD value (pCi/L)	<507	Act/Error Ratio=	43.8
Activity Calculations			
Sample Counting Efficiency	0.358		
Sample Activity (pCi/L) ± 1 sigma	10368 ±		.237
Comments			
<p>10368 / 10036 = 1.03</p> <p>QA RESULTS ACCEPTABLE MEASURED / OBSERVED RATIO 1.03</p>			
<p>Note: If CL ratio is < 1.0 OR Act/Error Ratio is < 4.7 then the LLD value is reported as a "Less Than" Activity.</p>			
Technician:	<i>PITENDER</i> / <i>W. P. [Signature]</i>	Date:	<i>10/17/05</i>
Supervisor review:	B. Gorman <i>[Signature]</i>	Date:	<i>10/17/05</i>