

ID: FT. MCCLELLAN

23 AUG 2000 09:27

USER: 9 COMMENT: 318205D16 - 318207A1 P6#28

PRESET TIME : 1.00

DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Que its Low: 4.535 High: 312.33

| SAM NO | POS  | TIME MIN | H#    | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|------|----------|-------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |      |          |       | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | **1  | 1.00     | 79.3  | 20.00 | 44.72  | 19.00 | 45.88  | 30.99  | 25.21   | 49.63 | 0.53  | 18.33 | 74.73 | 1.229 | 10.91   | 1.46         |
| 2      | **2  | 1.00     | 83.4  | 21.00 | 43.64  | 28.00 | 37.80  | 29.09  | 37.34   | 48.63 | 0.53  | 18.36 | 74.57 | 0.779 | 6.06    | 2.98         |
| 3      | **3  | 1.00     | 85.4  | 28.00 | 37.80  | 26.00 | 39.22  | 44.96  | 34.59   | 48.15 | 0.53  | 18.37 | 74.49 | 1.300 | 5.05    | 4.53         |
| 4      | **4  | 1.00     | 82.7  | 13.00 | 55.47  | 22.00 | 42.64  | 15.59  | 29.38   | 48.81 | 0.53  | 18.35 | 74.60 | 0.530 | 4.05    | 6.05         |
| 5      | **5  | 1.00     | 87.7  | 16.00 | 50.00  | 32.00 | 35.36  | 17.05  | 42.89   | 47.59 | 0.53  | 18.38 | 74.39 | 0.398 | 3.90    | 7.59         |
| 6      | **6  | 1.00     | 78.9  | 17.00 | 48.51  | 25.00 | 40.00  | 21.92  | 33.29   | 49.72 | 0.53  | 18.33 | 74.75 | 0.658 | 3.93    | 9.11         |
| 7      | **7  | 1.00     | 81.1  | 17.00 | 48.51  | 23.00 | 41.70  | 23.13  | 30.64   | 49.20 | 0.53  | 18.34 | 74.66 | 0.755 | 3.22    | 10.66        |
| 8      | **8  | 1.00     | 83.1  | 22.00 | 42.64  | 21.00 | 43.64  | 34.64  | 27.91   | 48.72 | 0.53  | 18.35 | 74.58 | 1.241 | 5.45    | 12.18        |
| 9      | **9  | 1.00     | 79.2  | 15.00 | 51.64  | 20.00 | 44.72  | 20.38  | 26.62   | 49.65 | 0.53  | 18.33 | 74.73 | 0.766 | 5.95    | 13.78        |
| 10     | **10 | 1.00     | 122.9 | 13.00 | 55.47  | 24.00 | 40.82  | 17.88  | 32.79   | 38.86 | 0.54  | 18.46 | 72.90 | 0.545 | 1.85    | 15.30        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan P.O.# \_\_\_\_\_  
 Phone #: (256) 848-6725 Fax #: (256) 848-5517  
 Project Name/#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required |   |                      | Remarks            |                                      |                      |                    |
|-----------------------|----------------|----------------|-------------------|---|----------------------|--------------------|--------------------------------------|----------------------|--------------------|
|                       |                |                | H                 | 3   |                      |                    |                                      |                      |                    |
| 318207A2              | 8/10/00        | 13:00          | X                 | ✓   |                      | NO DIRECT SUNLIGHT |                                      |                      |                    |
| 318207B1              |                |                | X                 | ✓   |                      |                    |                                      |                      |                    |
| 318207B2              |                |                | X                 | ✓   |                      |                    |                                      |                      |                    |
| 318207B3              |                |                | X                 | ✓   |                      |                    |                                      |                      |                    |
| 318207C1              |                |                | X                 | ✓   |                      |                    |                                      |                      |                    |
| 318207C2              |                |                | X                 | ✓   |                      |                    |                                      |                      |                    |
| 318207D1              |                |                | X                 | ✓   |                      |                    |                                      |                      |                    |
| 318207D2              |                |                | X                 | ✓   |                      |                    |                                      |                      |                    |
| 318207D3              |                |                | X                 | ✓   |                      |                    |                                      |                      |                    |
| 318207E1              | 9/10/00        | 13:00          | X                 | ✓   |                      |                    |                                      |                      |                    |
| Name of Shipper       | Airbill No.    | Date           | Time              | Sample Relinquished By: <u>Charles Birchfield</u> | Date: <u>9/15/00</u> | Time: <u>10:30</u> | Sample Received By: <u>W.K. Mays</u> | Date: <u>9/21/00</u> | Time: <u>10:00</u> |
| Received by (Lab)     | Date           | Time           | Seals Intact?     |   |                      |                    |                                      |                      |                    |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone \_\_\_\_\_ Fax X

Report Results To: Mark McHugh  
 Address: 669 Emory Valley Rd. Oak Ridge, TN 37830  
 Telephone: (865) 425-5011

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_  
 Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057  
 ALLIED TECHNOLOGY, INC. FORM ATGF-059

ID: FT. MCCLELLAN

23 AUG 2000 10:11

USER: 9 COMMENT: 318207A2 - 318207E1 PG#29

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM<br>NO | TIME<br>MIN | H#   | 3H    |        | 14C   |        | 3H<br>DPM | 14C<br>DPM | 3H    |       | 14C   |       | RATIO | LUMEX<br>% | ELAPSED<br>TIME |
|-----------|-------------|------|-------|--------|-------|--------|-----------|------------|-------|-------|-------|-------|-------|------------|-----------------|
|           |             |      | CPM   | ZERROR | CPM   | ZERROR |           |            | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |            |                 |
| 1 **-1    | 1.00        | 97.0 | 17.00 | 48.51  | 20.00 | 44.72  | 26.60     | 26.83      | 45.32 | 0.53  | 18.43 | 74.02 | 0.991 | 4.54       | 1.46            |
| 2 **-2    | 1.00        | 80.3 | 19.00 | 45.88  | 26.00 | 39.22  | 25.62     | 34.63      | 49.37 | 0.53  | 18.34 | 74.69 | 0.740 | 3.18       | 2.97            |
| 3 **-3    | 1.00        | 95.9 | 13.00 | 55.47  | 20.00 | 44.72  | 17.65     | 26.88      | 45.59 | 0.53  | 18.42 | 74.06 | 0.657 | 3.59       | 4.51            |
| 4 **-4    | 1.00        | 86.9 | 12.00 | 57.74  | 22.00 | 42.64  | 13.78     | 29.46      | 47.80 | 0.53  | 18.38 | 74.43 | 0.468 | 3.00       | 6.02            |
| 5 **-5    | 1.00        | 88.3 | 17.00 | 48.51  | 26.00 | 39.22  | 22.34     | 34.80      | 47.45 | 0.53  | 18.38 | 74.37 | 0.642 | 2.52       | 7.55            |
| 6 **-6    | 1.00        | 85.6 | 9.00  | 66.67  | 27.00 | 38.49  | 4.88      | 36.22      | 48.11 | 0.53  | 18.37 | 74.48 | 0.135 | 2.58       | 9.09            |
| 7 **-7    | 1.00        | 87.2 | 20.00 | 44.72  | 25.00 | 40.00  | 29.06     | 33.39      | 47.71 | 0.53  | 18.38 | 74.41 | 0.870 | 6.49       | 10.63           |
| 8 **-8    | 1.00        | 88.2 | 11.00 | 60.30  | 28.00 | 37.80  | 8.61      | 37.59      | 47.48 | 0.53  | 18.38 | 74.38 | 0.229 | 2.88       | 12.14           |
| 9 **-9    | 1.00        | 82.4 | 19.00 | 45.88  | 21.00 | 43.64  | 28.38     | 27.95      | 48.88 | 0.53  | 18.35 | 74.61 | 1.016 | 3.02       | 13.69           |
| 10 **-10  | 1.00        | 76.3 | 17.00 | 48.51  | 16.00 | 50.00  | 26.07     | 21.19      | 50.33 | 0.53  | 18.31 | 74.85 | 1.230 | 4.62       | 15.20           |

Da 29

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O.# \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name/#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100 Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks   |
|-----------------------|----------------|----------------|-------------------|---|
| 318207E2              | 8/10/02        | 13:00          | H3                | NO DIRECT SUN LIGHT                               |
| 318207F1              | ↙              | ↘              | X ✓               |   |
| 318207E2              |                |                | X ✓               |   |
| 318207G1              |                |                | X ✓               |   |
| 318213D1              |                |                | X ✓               |   |
| 318213D2              |                |                | X ✓               |   |
| 318213D3              |                |                | X ✓               |   |
| 318213D4              |                |                | X ✓               |   |
| 318213D5              | ↙              | ↘              | X ✓               |   |
| 318213D6              | 9/10/02        | 13:00          | X ✓               | NO DIRECT SUN LIGHT                               |
| Name of Shipper       | Airbill No.    | Date           | Time              | Sample Relinquished By: <u>Charles Birchfield</u> |
|                       |                |                |                   | Date: <u>8/15/02</u> Time: <u>12:30</u>           |
| Received by (Lab)     | Date           | Time           | Seals Intact?     | Sample Received By: <u>M. King</u>                |
|                       |                |                |                   | Date: <u>8-21-02</u> Time: <u>12:00</u>           |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone      Fax     

Report Results To: Mark McHugh Telephone: (865) 425-5011

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: FT. MCCLELLAN

23 AUG 2000 11:30

JSER: 9 COMMENT: 318207E2 - 318213D6

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench its Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 80.7 | 27.00 | 38.49  | 20.00 | 44.72  | 44.93  | 26.46   | 49.29 | 0.53  | 18.34 | 74.68 | 1.698 | 16.04   | 1.48         |
| 2      | 11-2  | 1.00     | 81.4 | 52.00 | 27.74  | 19.00 | 45.88  | 96.62  | 24.77   | 49.12 | 0.53  | 18.34 | 74.65 | 3.901 | 24.49   | 3.03         |
| 3      | 11-3  | 1.00     | 84.1 | 21.00 | 43.64  | 26.00 | 39.22  | 30.19  | 34.67   | 48.48 | 0.53  | 18.36 | 74.54 | 0.871 | 7.36    | 4.56         |
| 4      | 11-4  | 1.00     | 83.7 | 18.00 | 47.14  | 26.00 | 39.22  | 23.95  | 34.70   | 48.56 | 0.53  | 18.36 | 74.55 | 0.690 | 6.25    | 6.07         |
| 5      | 11-5  | 1.00     | 82.6 | 22.00 | 42.64  | 28.00 | 37.80  | 31.03  | 37.32   | 48.82 | 0.53  | 18.35 | 74.60 | 0.832 | 7.81    | 7.61         |
| 6      | 11-6  | 1.00     | 96.1 | 24.00 | 40.82  | 32.00 | 35.36  | 35.32  | 42.96   | 45.55 | 0.53  | 18.42 | 74.05 | 0.822 | 3.18    | 9.13         |
| 7      | 11-7  | 1.00     | 85.4 | 12.00 | 57.74  | 21.00 | 43.64  | 14.21  | 28.09   | 48.15 | 0.53  | 18.37 | 74.49 | 0.506 | 12.39   | 10.68        |
| 8      | 11-8  | 1.00     | 87.4 | 26.00 | 39.22  | 31.00 | 35.92  | 38.59  | 41.39   | 47.67 | 0.53  | 18.38 | 74.41 | 0.932 | 8.04    | 12.22        |
| 9      | 11-9  | 1.00     | 85.9 | 14.00 | 53.45  | 17.00 | 48.51  | 20.47  | 22.68   | 48.03 | 0.53  | 18.37 | 74.47 | 0.903 | 7.96    | 13.77        |
| 10     | 11-10 | 1.00     | 83.5 | 20.00 | 44.72  | 21.00 | 43.64  | 30.58  | 27.95   | 48.62 | 0.53  | 18.36 | 74.56 | 1.094 | 17.36   | 15.30        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan P.O.# \_\_\_\_\_  
 Phone #: (256) 848-6725 Fax #: (256) 848-5517  
 Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification                  | Date Collected | Time Collected | Analysis Required                          | Remarks           |
|--|----------------|----------------|--|-------------------|
| 318213E1                               | 8/10/00        | 13:00          | X  | NO DIRECT SEALING |
| 318213E2                               | ↖              | ↖              | X  | ↖                 |
| 318213E3                               |                |                | X  |                   |
| 318213E4                               |                |                | X  |                   |
| 318213E5                               |                |                | X  |                   |
| 318213E6                               |                |                | X  |                   |
| 318213F1                               |                |                | X  |                   |
| 318213F2                               |                |                | X  |                   |
| 318213F3                               | ↖              | ↖              | X  | ↖                 |
| 318213F4                               | 8/10/00        | 13:00          | X  | NO DIRECT SEALING |
| Name of Shipper: Airbill No. Date Time |                |                | Sample Relinquished By: Charles Birchfield | Date: 8/15/00     |
| Received by (Lab): Date Time           |                |                | Sample Received By: M. K. Maggall          | Date: 8-21-00     |
| Seals Intact?                          |                |                |  |                   |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh Telephone: (865) 425-5014

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: FT. MCCLELLAN

23 AUG 2000 12:38

USER: 9 COMMENT: 318213E1-E6.F1-F4

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 86.2 | 21.00 | 43.64  | 17.00 | 48.51  | 35.13  | 22.58   | 47.97 | 0.53  | 18.37 | 74.46 | 1.555 | 6.66    | 1.46         |
| 2      | 11-2  | 1.00     | 89.9 | 30.00 | 36.51  | 14.00 | 53.45  | 56.54  | 18.44   | 47.06 | 0.53  | 18.39 | 74.31 | 3.066 | 13.14   | 2.99         |
| 3      | 11-3  | 1.00     | 92.4 | 27.00 | 38.49  | 17.00 | 48.51  | 49.20  | 22.56   | 46.44 | 0.53  | 18.41 | 74.20 | 2.181 | 8.69    | 4.55         |
| 4      | 11-4  | 1.00     | 89.3 | 17.00 | 48.51  | 13.00 | 55.47  | 29.28  | 17.28   | 47.21 | 0.53  | 18.39 | 74.33 | 1.694 | 10.94   | 6.07         |
| 5      | 11-5  | 1.00     | 82.3 | 17.00 | 48.51  | 18.00 | 47.14  | 25.78  | 23.94   | 48.91 | 0.53  | 18.35 | 74.61 | 1.077 | 9.35    | 7.62         |
| 6      | 11-6  | 1.00     | 84.1 | 26.00 | 39.22  | 18.00 | 47.14  | 44.62  | 23.83   | 48.46 | 0.53  | 18.36 | 74.54 | 1.872 | 22.21   | 9.16         |
| 7      | 11-7  | 1.00     | 98.2 | 23.00 | 41.70  | 22.00 | 42.64  | 39.02  | 29.46   | 45.03 | 0.53  | 18.43 | 73.97 | 1.324 | 2.96    | 10.69        |
| 8      | 11-8  | 1.00     | 89.3 | 22.00 | 42.64  | 17.00 | 48.51  | 37.81  | 22.60   | 47.20 | 0.53  | 18.39 | 74.33 | 1.673 | 14.49   | 12.23        |
| 9      | 11-9  | 1.00     | 77.2 | 22.00 | 42.64  | 24.00 | 40.82  | 32.25  | 31.85   | 50.13 | 0.53  | 18.32 | 74.81 | 1.012 | 7.43    | 13.77        |
| 10     | 11-10 | 1.00     | 85.0 | 31.00 | 35.92  | 26.00 | 39.22  | 51.11  | 34.54   | 48.25 | 0.53  | 18.37 | 74.50 | 1.480 | 12.66   | 15.31        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan P.O.# \_\_\_\_\_  
 Phone #: (256) 848-6725 Fax #: (256) 848-5517  
 Project Name: # Ft. McClellan Radiological Survey for Release of Commodity Use Areas /  
 # USA-99-100, Phase II

Sampler: Charles Binfield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks            |
|-----------------------|----------------|----------------|-------------------|--------------------|
| 318213EE              | 9/10/00        | 13:00          | X                 | NO DIRECT SUNLIGHT |
| 318213FE              |                |                | X                 |                    |
| 318214G1              |                |                | X                 |                    |
| 318214G2              |                |                | X                 |                    |
| 318214G3              |                |                | X                 |                    |
| 318214G4              |                |                | X                 |                    |
| 318214G5              |                |                | X                 |                    |
| 318214H1              |                |                | X                 |                    |
| 318214H2              | 9/10/00        | 13:00          | X                 | NO DIRECT SUNLIGHT |

Sample Relinquished By: Charles Binfield

Sample Received By: M. K. [Signature]

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh Telephone: (865) 425-5011  
 Address: 669 Emory Valley Rd. Oak Ridge, TN 37830  
 Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_  
 Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY UP, INC. FORM ATGF-059

ID: FT. MCCLELLAN

23 AUG 2000 12:57

USER: 9 COMMENT: 318213F5-318214H2

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO : NO AQC : YES CYCLE REPEATS : 1  
 SCI. OR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO         | POS   | TIME MIN | H#   | 3H     |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO  | LUMEX % | ELAPSED TIME |
|----------------|-------|----------|------|--------|--------|-------|--------|--------|---------|-------|-------|-------|-------|--------|---------|--------------|
|                |       |          |      | CPM    | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |        |         |              |
| 1              | 11-1  | 1.00     | 81.1 | 359.00 | 10.56  | 21.00 | 43.64  | 721.09 | 23.02   | 49.20 | 0.53  | 18.34 | 74.66 | 31.320 | 63.88   | 1.54         |
| MISSING SAMPLE |       |          |      |        |        |       |        |        |         |       |       |       |       |        |         |              |
| 3              | 11-3  | 1.00     | 92.1 | 21.00  | 43.64  | 27.00 | 38.49  | 30.83  | 36.16   | 46.53 | 0.53  | 18.40 | 74.22 | 0.853  | 3.86    | 3.06         |
| 4              | 11-4  | 1.00     | 83.5 | 34.00  | 34.30  | 16.00 | 50.00  | 61.99  | 21.02   | 48.62 | 0.53  | 18.36 | 74.56 | 2.949  | 16.19   | 4.69         |
| 5              | 11-5  | 1.00     | 86.1 | 31.00  | 35.92  | 20.00 | 44.72  | 54.45  | 26.47   | 48.00 | 0.53  | 18.37 | 74.46 | 2.057  | 15.51   | 6.22         |
| 6              | 11-6  | 1.00     | 84.8 | 24.00  | 40.82  | 20.00 | 44.72  | 39.59  | 26.56   | 48.31 | 0.53  | 18.36 | 74.51 | 1.490  | 9.13    | 7.76         |
| 7              | 11-7  | 1.00     | 76.4 | 14.00  | 53.45  | 17.00 | 48.51  | 19.61  | 22.57   | 50.32 | 0.53  | 18.31 | 74.85 | 0.869  | 10.32   | 9.30         |
| 8              | 11-8  | 1.00     | 82.7 | 27.00  | 38.49  | 22.00 | 42.64  | 44.36  | 29.18   | 48.80 | 0.53  | 18.35 | 74.59 | 1.520  | 23.68   | 10.85        |
| 9              | 11-9  | 1.00     | 86.7 | 18.00  | 47.14  | 35.00 | 33.81  | 19.62  | 46.88   | 47.84 | 0.53  | 18.38 | 74.43 | 0.418  | 11.55   | 12.39        |
| 10             | 11-10 | 1.00     | 88.8 | 23.00  | 41.70  | 22.00 | 42.64  | 37.20  | 29.33   | 47.33 | 0.53  | 18.39 | 74.35 | 1.269  | 13.81   | 13.94        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan P.O. # \_\_\_\_\_  
 Phone #: (256) 848-6725 Fax #: (256) 848-5517  
 Project Name: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks            |
|-----------------------|----------------|----------------|-------------------|--------------------|
| 318214H3              | 8/10/00        | 13:00          | H3                | NO DIRECT SUNLIGHT |
| 318214H4              | ✓              | ✓              | ✓                 |                    |
| 318214H5              | ✓              | ✓              | ✓                 |                    |
| 318214H6              | ✓              | ✓              | ✓                 |                    |
| 318214I1              | ✓              | ✓              | ✓                 |                    |
| 318214I2              | ✓              | ✓              | ✓                 |                    |
| 318214I3              | ✓              | ✓              | ✓                 |                    |
| 318214I4              | ✓              | ✓              | ✓                 |                    |
| 318214I5              | ✓              | ✓              | ✓                 |                    |
| 318214I6              | 8/10/00        | 13:00          | ✓                 | NO DIRECT SUNLIGHT |

Received by (Lab) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Seals Intact? \_\_\_\_\_

Turnaround Time Requested (please circle): Normal Rush \_\_\_\_\_  
 (Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_

Rush results requested by (please circle): \_\_\_\_\_

Report Results To: Mark McHugh  
 Address: 669 Emory Valley Rd. Oak Ridge, TN 37830 Telephone: (865) 425-5011

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_  
 Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY, LP, INC. FORM ATGF-059

ID: FT MCCLELLAN

23 AUG 2000 13:43

USER: 1 COMMENT: 318214H3-318214I6

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO " : NO AQC : YES CYCLE REPEATS : 1  
 SCI. OR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#   | 3H     |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO  | LUMEX % | ELAPSED TIME |
|--------|-------|----------|------|--------|--------|-------|--------|--------|---------|-------|-------|-------|-------|--------|---------|--------------|
|        |       |          |      | CPM    | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |        |         |              |
| 1      | 11-1  | 1.00     | 85.9 | 27.00  | 38.49  | 30.00 | 36.51  | 40.92  | 40.00   | 48.02 | 0.53  | 18.37 | 74.47 | 1.023  | 10.16   | 1.47         |
| 2      | 11-2  | 1.00     | 80.7 | 36.00  | 33.33  | 19.00 | 45.88  | 63.74  | 24.99   | 49.29 | 0.53  | 18.34 | 74.67 | 2.550  | 11.78   | 3.00         |
| 3      | 11-3  | 1.00     | 89.3 | 18.00  | 47.14  | 14.00 | 53.45  | 30.87  | 18.62   | 47.22 | 0.53  | 18.39 | 74.33 | 1.658  | 12.28   | 4.55         |
| 4      | 11-4  | 1.00     | 93.6 | 15.00  | 51.64  | 23.00 | 41.70  | 20.18  | 30.87   | 46.16 | 0.53  | 18.41 | 74.16 | 0.654  | 4.21    | 6.07         |
| 5      | 11-5  | 1.00     | 85.6 | 13.00  | 55.47  | 18.00 | 47.14  | 17.85  | 24.04   | 48.10 | 0.53  | 18.37 | 74.48 | 0.742  | 5.09    | 7.60         |
| 6      | 11-6  | 1.00     | 89.5 | 13.00  | 55.47  | 21.00 | 43.64  | 16.59  | 28.14   | 47.17 | 0.53  | 18.39 | 74.32 | 0.590  | 4.63    | 9.11         |
| 7      | 11-7  | 1.00     | 81.9 | 15.00  | 51.64  | 22.00 | 42.64  | 19.63  | 29.34   | 49.00 | 0.53  | 18.35 | 74.63 | 0.669  | 4.22    | 10.65        |
| 8      | 11-8  | 1.00     | 86.5 | 166.00 | 15.52  | 17.00 | 48.51  | 338.86 | 20.44   | 47.88 | 0.53  | 18.37 | 74.44 | 16.580 | 56.67   | 12.24        |
| 9      | 11-9  | 1.00     | 82.8 | 18.00  | 47.14  | 29.00 | 37.14  | 22.33  | 38.72   | 48.78 | 0.53  | 18.35 | 74.59 | 0.577  | 3.60    | 13.77        |
| 10     | 11-10 | 1.00     | 88.9 | 9.00   | 66.67  | 24.00 | 40.82  | 6.50   | 32.24   | 47.30 | 0.53  | 18.39 | 74.35 | 0.202  | 4.81    | 15.31        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O.# \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

Sample Identification

Date Collected

Time Collected

Analysis Required

Remarks

|                   |             |       |               |                           |         |       |                     |         |       |                    |
|-------------------|-------------|-------|---------------|---------------------------|---------|-------|---------------------|---------|-------|--------------------|
| 318212A1          | 9/10/00     | 13:00 | X             | ✓                         |         |       |                     |         |       | No DEECT Sun Light |
| 318212A2          | ✓           | ✓     | X             | ✓                         |         |       |                     |         |       | ✓                  |
| 318212A3          |             |       | X             | ✓                         |         |       |                     |         |       |                    |
| 318212A4          |             |       | X             | ✓                         |         |       |                     |         |       |                    |
| 318212A5          |             |       | X             | ✓                         |         |       |                     |         |       |                    |
| 318212A6          |             |       | X             | ✓                         |         |       |                     |         |       |                    |
| 318212B1          |             |       | X             | ✓                         |         |       |                     |         |       |                    |
| 318212B2          |             |       | X             | ✓                         |         |       |                     |         |       |                    |
| 318212B3          | 9/10/00     | 13:00 | X             | ✓                         |         |       |                     |         |       | No DEECT Sun Light |
| 318212B4          |             |       | X             | ✓                         |         |       |                     |         |       |                    |
| Name of Shipper   | Airbill No. | Date  | Time          | Sample Relinquished By:   | Date    | Time  | Sample Received By: | Date    | Time  |                    |
|                   |             |       |               | <u>Charles Birchfield</u> | 8/15/00 | 10:30 | <u>W. K. Mayhew</u> | 8-21-00 | 10:00 |                    |
| Received by (Lab) | Date        | Time  | Seals Intact? |                           |         |       |                     |         |       |                    |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAI approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle):

Phone Fax

Report Results To: Mark McHugh

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

Telephone: (865) 425-5011

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY LP, INC. FORM ATGF-059

ID: FT MCCLELLAN

23 AUG 2000 13:59

JSER: 3 COMMENT: 318212A1-318212B4

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCI JR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#   | 3H     |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO  | LUMEX % | ELAPSED TIME |
|--------|-------|----------|------|--------|--------|-------|--------|--------|---------|-------|-------|-------|-------|--------|---------|--------------|
|        |       |          |      | CPM    | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |        |         |              |
| 1      | 11-1  | 1.00     | 89.0 | 13.00  | 55.47  | 24.00 | 40.82  | 14.98  | 32.18   | 47.28 | 0.53  | 18.39 | 74.34 | 0.466  | 3.40    | 1.45         |
| 2      | 11-2  | 1.00     | 89.1 | 201.00 | 14.11  | 15.00 | 51.64  | 418.60 | 17.21   | 47.26 | 0.53  | 18.39 | 74.34 | 24.320 | 47.67   | 3.01         |
| 3      | 11-3  | 1.00     | 89.8 | 12.00  | 57.74  | 16.00 | 50.00  | 17.12  | 21.41   | 47.10 | 0.53  | 18.39 | 74.31 | 0.800  | 3.63    | 4.59         |
| 4      | 11-4  | 1.00     | 89.4 | 14.00  | 53.45  | 14.00 | 53.45  | 22.39  | 18.68   | 47.19 | 0.53  | 18.39 | 74.33 | 1.199  | 3.02    | 6.12         |
| 5      | 11-5  | 1.00     | 85.1 | 8.00   | 70.71  | 26.00 | 39.22  | 3.31   | 34.88   | 48.22 | 0.53  | 18.37 | 74.50 | 0.095  | 2.79    | 7.65         |
| 6      | 11-6  | 1.00     | 86.2 | 10.00  | 63.25  | 22.00 | 42.64  | 9.56   | 29.48   | 47.97 | 0.53  | 18.37 | 74.46 | 0.324  | 2.74    | 9.17         |
| 7      | 11-7  | 1.00     | 86.6 | 41.00  | 31.23  | 28.00 | 37.80  | 71.41  | 37.11   | 47.87 | 0.53  | 18.37 | 74.44 | 1.924  | 26.38   | 10.73        |
| 8      | 11-8  | 1.00     | 83.8 | 18.00  | 47.14  | 30.00 | 36.51  | 21.92  | 40.09   | 48.54 | 0.53  | 18.36 | 74.55 | 0.547  | 7.28    | 12.26        |
| 9      | 11-9  | 1.00     | 95.2 | 32.00  | 35.36  | 28.00 | 37.80  | 54.87  | 37.40   | 45.76 | 0.53  | 18.42 | 74.09 | 1.467  | 6.95    | 13.83        |
| 10     | 11-10 | 1.00     | 88.8 | 24.00  | 40.82  | 15.00 | 51.64  | 42.99  | 19.87   | 47.33 | 0.53  | 18.39 | 74.35 | 2.164  | 10.48   | 15.35        |

# Allied Technology Group

# Chain of Custody

Client Name:  Ft. McClellan  P.O.# \_\_\_\_\_  
 Phone #:  (256) 848-6725  Fax #:  (256) 848-5517   
 Project Name#:  Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler:  Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required |   |      |  | Remarks             |      |
|-----------------------|----------------|----------------|-------------------|---|------|--|---------------------|------|
| 318212B5              | 8/10/00        | 13:00          | X                 | ✓   |      |  | No DIRECT SUN LIGHT |      |
| 318212C1              |                |                | X                 | ✓   |      |  |                     |      |
| 318212C2              |                |                | X                 | ✓   |      |  |                     |      |
| 318212C3              |                |                | X                 | ✓   |      |  |                     |      |
| 318212C4              |                |                | X                 | ✓   |      |  |                     |      |
| 318212C5              | 8/10/00        | 13:00          | X                 | ✓   |      |  | No DIRECT SUN LIGHT |      |
| 318212C6              |                |                | X                 | ✓   |      |  |                     |      |
| 3185A1                | 8/14/00        | 09:00          | X                 | ✓   |      |  |                     |      |
| 3185A2                | 8/14/00        | 09:00          | X                 | ✓   |      |  |                     |      |
| 3185B1                | 8/14/00        | 09:00          | X                 | ✓   |      |  |                     |      |
| Name of Shipper       | Airbill No.    | Date           | Time              | Sample Relinquished By: <u> Charles Birchfield </u> |      |  |                     |      |
| Received by (Lab)     | Date           | Time           | Seals Intact?     | Date  | Time | Sample Received By: <u> M. K. ... </u> | Date                | Time |

Turnaround Time Requested (please circle):  Normal  Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone \_\_\_\_\_ Fax \_\_\_\_\_

Report Results To: Mark McHugh  
 Address: 669 Emory Valley Rd. Oak Ridge, TN 37830  
 Telephone: (865) 425-5011

Type of Disposal: \_\_\_\_\_  
 Date/Time of Disposal: \_\_\_\_\_  
 Authorized for Disposal By: \_\_\_\_\_  
 Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057  
 ALLIED TECHNOLOGY, LP, INC. FORM ATGF-059

ID: FT MCCLELLAN

23 AUG 2000 14:21

USER: 8 COMMENT: 318212B5-3185B1

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|----------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|          |          |      | CPM   | %ERROR | CPM   | %ERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1 **-1   | 1.00     | 92.8 | 20.00 | 44.72  | 20.00 | 44.72  | 32.53  | 26.73   | 46.35 | 0.53  | 18.41 | 74.19 | 1.217 | 7.97    | 1.47         |
| 2 **-2   | 1.00     | 89.5 | 13.00 | 55.47  | 16.00 | 50.00  | 19.23  | 21.39   | 47.16 | 0.53  | 18.39 | 74.32 | 0.899 | 2.56    | 3.00         |
| 3 **-3   | 1.00     | 91.4 | 13.00 | 55.47  | 28.00 | 37.80  | 13.01  | 37.62   | 46.71 | 0.53  | 18.40 | 74.25 | 0.346 | 5.64    | 4.55         |
| 4 **-4   | 1.00     | 85.5 | 14.00 | 53.45  | 24.00 | 40.82  | 16.83  | 32.10   | 48.14 | 0.53  | 18.37 | 74.48 | 0.524 | 5.00    | 6.08         |
| 5 **-5   | 1.00     | 89.5 | 12.00 | 57.74  | 25.00 | 40.00  | 12.36  | 33.55   | 47.16 | 0.53  | 18.39 | 74.32 | 0.368 | 6.17    | 7.62         |
| 6 **-6   | 1.00     | 92.8 | 16.00 | 50.00  | 26.00 | 39.22  | 20.66  | 34.90   | 46.35 | 0.53  | 18.41 | 74.19 | 0.592 | 7.70    | 9.15         |
| 7 **-7   | 1.00     | 76.5 | 57.00 | 26.49  | 25.00 | 40.00  | 101.43 | 32.68   | 50.30 | 0.53  | 18.31 | 74.84 | 3.103 | 29.10   | 10.72        |
| 8 **-8   | 1.00     | 75.2 | 15.00 | 51.64  | 24.00 | 40.82  | 18.10  | 31.92   | 50.60 | 0.53  | 18.30 | 74.89 | 0.567 | 3.73    | 12.30        |
| 9 **-9   | 1.00     | 79.2 | 16.00 | 50.00  | 28.00 | 37.80  | 18.45  | 37.34   | 49.63 | 0.53  | 18.33 | 74.73 | 0.494 | 3.43    | 13.82        |
| 10 **-10 | 1.00     | 79.3 | 9.00  | 66.67  | 20.00 | 44.72  | 8.27   | 26.70   | 49.62 | 0.53  | 18.33 | 74.73 | 0.310 | 4.83    | 15.35        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O.# \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name/#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks            |
|-----------------------|----------------|----------------|-------------------|--------------------|
| 3185 B2               | 9/14/00        | 09:00          | X                 | NO DIRECT SUNLIGHT |
| 3185 B3               | 9/14/00        | 09:00          | X                 | NO DIRECT SUNLIGHT |
| 3185 C1               | 9/14/00        | 09:00          | X                 |                    |
| 3185 C2               | 9/14/00        | 09:00          | X                 |                    |
| 3185 D1               | 9/14/00        | 09:00          | X                 |                    |
| 3185 D2               | 9/14/00        | 09:00          | X                 |                    |
| 3185 D3               | 9/14/00        | 09:00          | X                 |                    |
| 3185 E1               | 9/14/00        | 09:00          | X                 |                    |
| 3185 E2               | 9/14/00        | 09:00          | X                 |                    |
| 3185 F1               | 9/14/00        | 09:00          | X                 |                    |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAI approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_

Authorized for Disposal By: \_\_\_\_\_

Disposed of By: \_\_\_\_\_

Telephone: (865) 425-5011

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY, INC., FORM ATGF-059

ID: FT MCCLELLAN

23 AUG 2000 15:00

USER: 9 COMMENT: 3185B2-3185F1

PRESET TIME: 1.00

DATA CALC: DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
COUNT BLANK: NO IC# : NO REPLICATES : 1 RS232 : OFF  
TWO PHASE: NO AQC : YES CYCLE REPEATS: 1  
SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
LOW LEVEL: NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Due its Low: 4.535 High: 312.33

| 3AM NO | POS   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 83.0 | 24.00 | 40.82  | 18.00 | 47.14  | 40.26  | 23.85   | 48.74 | 0.53  | 18.35 | 74.58 | 1.688 | 3.81    | 1.46         |
| 2      | 11-2  | 1.00     | 84.9 | 11.00 | 60.30  | 26.00 | 39.22  | 9.54   | 34.83   | 48.27 | 0.53  | 18.37 | 74.51 | 0.274 | 3.60    | 2.98         |
| 3      | 11-3  | 1.00     | 84.4 | 20.00 | 44.72  | 26.00 | 39.22  | 28.17  | 34.69   | 48.39 | 0.53  | 18.36 | 74.53 | 0.812 | 2.98    | 4.53         |
| 4      | 11-4  | 1.00     | 84.1 | 16.00 | 50.00  | 23.00 | 41.70  | 21.38  | 30.71   | 48.46 | 0.53  | 18.36 | 74.54 | 0.696 | 3.40    | 6.07         |
| 5      | 11-5  | 1.00     | 77.0 | 15.00 | 51.64  | 30.00 | 36.51  | 15.30  | 39.99   | 50.18 | 0.53  | 18.32 | 74.82 | 0.383 | 3.30    | 7.60         |
| 6      | 11-6  | 1.00     | 80.9 | 17.00 | 48.51  | 25.00 | 40.00  | 22.11  | 33.33   | 49.25 | 0.53  | 18.34 | 74.67 | 0.663 | 3.15    | 9.10         |
| 7      | 11-7  | 1.00     | 82.4 | 15.00 | 51.64  | 13.00 | 55.47  | 24.21  | 17.25   | 48.88 | 0.53  | 18.35 | 74.61 | 1.403 | 3.53    | 10.64        |
| 8      | 11-8  | 1.00     | 78.9 | 34.00 | 34.30  | 23.00 | 41.70  | 57.20  | 30.37   | 49.71 | 0.53  | 18.33 | 74.74 | 1.884 | 1.83    | 12.17        |
| 9      | 11-9  | 1.00     | 82.8 | 12.00 | 57.74  | 23.00 | 41.70  | 13.03  | 30.74   | 48.78 | 0.53  | 18.35 | 74.59 | 0.424 | 2.19    | 13.70        |
| 10     | 11-10 | 1.00     | 82.4 | 12.00 | 57.74  | 24.00 | 40.82  | 12.51  | 32.08   | 48.89 | 0.53  | 18.35 | 74.61 | 0.390 | 2.26    | 15.22        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan P.O. # \_\_\_\_\_  
 Phone #: (256) 848-6725 Fax #: (256) 848-5517  
 Project Name/#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks             |
|-----------------------|----------------|----------------|-------------------|---------------------|
| 3185FA                | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3185F3                | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3185DA01              | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3185DA02              | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3182DA31              | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3182DA32              | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3182DA33              | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3182DA34              | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3182DA35              | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |
| 3182DA36              | 8/14/00        | 09:00          | X ✓               | NO DIRECT SUN LIGHT |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone \_\_\_\_\_ Fax \_\_\_\_\_

Report Results To: Mark McHugh Telephone: (865) 425-5011

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057  
 ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: FT MCCLELLAN

23 AUG 2000 15:55

USER: 1 COMMENT: 3185F2-3182QA36

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BAL.  QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 75.7 | 9.00  | 66.67  | 23.00 | 41.70  | 6.71   | 30.67   | 50.47 | 0.53  | 18.31 | 74.87 | 0.219 | 3.89    | 1.48         |
| 2      | 11-2  | 1.00     | 77.8 | 26.00 | 39.22  | 22.00 | 42.64  | 41.35  | 29.12   | 49.97 | 0.53  | 18.32 | 74.79 | 1.420 | 2.10    | 2.98         |
| 3      | 11-3  | 1.00     | 76.9 | 12.00 | 57.74  | 23.00 | 41.70  | 12.72  | 30.65   | 50.20 | 0.53  | 18.32 | 74.83 | 0.415 | 1.96    | 4.53         |
| 4      | 11-4  | 1.00     | 71.5 | 11.00 | 60.30  | 25.00 | 40.00  | 9.57   | 33.25   | 51.46 | 0.53  | 18.28 | 75.04 | 0.288 | 2.32    | 6.04         |
| 5      | 11-5  | 1.00     | 66.5 | 38.00 | 32.44  | 19.00 | 45.88  | 63.61  | 24.80   | 52.62 | 0.54  | 18.25 | 75.24 | 2.565 | 24.42   | 7.59         |
| 6      | 11-6  | 1.00     | 72.1 | 26.00 | 39.22  | 18.00 | 47.14  | 42.22  | 23.70   | 51.32 | 0.53  | 18.28 | 75.01 | 1.782 | 13.30   | 9.12         |
| 7      | 11-7  | 1.00     | 67.2 | 18.00 | 47.14  | 23.00 | 41.70  | 23.73  | 30.41   | 52.46 | 0.54  | 18.25 | 75.21 | 0.780 | 8.70    | 10.66        |
| 8      | 11-8  | 1.00     | 72.5 | 25.00 | 40.00  | 20.00 | 44.72  | 39.38  | 26.39   | 51.22 | 0.53  | 18.29 | 75.00 | 1.493 | 8.16    | 12.18        |
| 9      | 11-9  | 1.00     | 68.5 | 22.00 | 42.64  | 25.00 | 40.00  | 30.61  | 33.05   | 52.16 | 0.54  | 18.26 | 75.16 | 0.926 | 9.74    | 13.73        |
| 10     | 11-10 | 1.00     | 66.6 | 19.00 | 45.88  | 37.00 | 32.88  | 19.11  | 49.04   | 52.61 | 0.54  | 18.25 | 75.23 | 0.390 | 5.83    | 15.24        |

Pg. 37

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O. # \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks   |
|-----------------------|----------------|----------------|-------------------|---|
| 3182 P01              | 8-4-00         | 12:00          | H3                | No DIRECT SURVEIL                                 |
| 3182 P02              | ↙              | ↘              |                   |   |
| 3182 P03              |                |                |                   |   |
| 3182 P04              |                |                |                   |   |
| 3182 P05              |                |                |                   |   |
| 3182 P06              |                |                |                   |   |
| 3182 P07              |                |                |                   |   |
| 3182 P08              |                |                |                   |   |
| 3182 P09              | ↙              | ↘              |                   |   |
| 3182 P10              | 8-4-00         | 12:00          | X                 | No DIRECT SURVEIL                                 |
| Name of Shipper       | Airbill No.    | Date           | Time              | Sample Relinquished By: <u>Charles Birchfield</u> |
| Received by (Lab)     | Date           | Time           | Seals Intact?     | Date: <u>8/7/00</u> Time: <u>10:00</u>            |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAI approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh Telephone: (865) 425-5011

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID:3182

16 AUG 2000 14:54

USER: 1 COMMENT:01-010

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# :YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC :YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 0.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High:312.33

| SAI NO   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|----------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|          |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1 **-1   | 1.00     | 92.0 | 24.00 | 40.82  | 16.00 | 50.00  | 43.15  | 21.25   | 46.55 | 0.53  | 18.40 | 74.22 | 2.031 | 11.30   | 1.46         |
| 2 **-2   | 1.00     | 78.9 | 27.00 | 38.49  | 23.00 | 41.70  | 43.08  | 30.47   | 49.71 | 0.53  | 18.33 | 74.75 | 1.414 | 8.99    | 2.98         |
| 3 **-3   | 1.00     | 86.8 | 33.00 | 34.82  | 28.00 | 37.80  | 54.71  | 37.23   | 47.81 | 0.53  | 18.38 | 74.43 | 1.469 | 9.15    | 4.54         |
| 4 **-4   | 1.00     | 96.3 | 23.00 | 41.70  | 24.00 | 40.82  | 37.53  | 32.14   | 45.50 | 0.53  | 18.42 | 74.05 | 1.168 | 6.35    | 6.06         |
| 5 **-5   | 1.00     | 98.7 | 24.00 | 40.82  | 23.00 | 41.70  | 40.80  | 30.81   | 44.91 | 0.53  | 18.43 | 73.95 | 1.324 | 8.74    | 7.59         |
| 6 **-6   | 1.00     | 86.2 | 24.00 | 40.82  | 24.00 | 40.82  | 37.80  | 31.97   | 47.95 | 0.53  | 18.37 | 74.45 | 1.182 | 7.37    | 9.14         |
| 7 **-7   | 1.00     | 83.6 | 27.00 | 38.49  | 15.00 | 51.64  | 48.09  | 19.78   | 48.60 | 0.53  | 18.36 | 74.56 | 2.431 | 7.68    | 10.69        |
| 8 **-8   | 1.00     | 81.3 | 22.00 | 42.64  | 25.00 | 40.00  | 32.35  | 33.26   | 49.14 | 0.53  | 18.34 | 74.65 | 0.973 | 6.98    | 12.22        |
| 9 **-9   | 1.00     | 94.1 | 42.00 | 30.86  | 23.00 | 41.70  | 79.07  | 30.46   | 46.02 | 0.53  | 18.41 | 74.13 | 2.596 | 30.47   | 13.78        |
| 10 **-10 | 1.00     | 83.8 | 22.00 | 42.64  | 25.00 | 40.00  | 32.72  | 33.30   | 48.55 | 0.53  | 18.36 | 74.55 | 0.983 | 8.70    | 15.32        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O. #

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks             |
|-----------------------|----------------|----------------|-------------------|---------------------|
| 3182011               | 9-4-00         | 12:00          | H3                | No DIRECT SUNLIGHT  |
| 3182012               | ↙              | ↘              |                   | ↙                   |
| 3182013               |                |                |                   |                     |
| 3182014               |                |                |                   |                     |
| 3182015               |                |                |                   |                     |
| 3182016               |                |                |                   |                     |
| 3182017               |                |                |                   |                     |
| 3182018               | ↙              | ↘              |                   | ↙                   |
| 3182019               |                |                |                   |                     |
| 3182020               | 9-4-00         | 12:00          |                   | No DIRECT SUNLIGHT  |
| Name of Shipper       | Airbill No.    | Date           | Time              | Sample Received By: |
|                       |                |                |                   | Charles Birchfield  |
| Received by (Lab)     | Date           | Time           | Seals Intact?     |                     |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone  Fax

Report Results To: Mark McHugh  
 Address: 669 Emory Valley Rd. Oak Ridge, TN 37830  
 Telephone: (865) 425-5011  
 Type of Disposal: \_\_\_\_\_  
 Date/Time of Disposal: \_\_\_\_\_  
 Authorized for Disposal By: \_\_\_\_\_  
 Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057  
 ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: 3182

16 AUG 2000 11:20

USER: 8 COMMENT: Q-11.THROUGH, Q-20  
 PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO   | TIME MIN | H#    | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|----------|----------|-------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|          |          |       | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1 **-1   | 1.00     | 81.0  | 33.00 | 34.82  | 25.00 | 40.00  | 54.73  | 33.10   | 49.21 | 0.53  | 18.34 | 74.66 | 1.654 | 12.97   | 1.48         |
| 2 **-2   | 1.00     | 96.0  | 27.00 | 38.49  | 22.00 | 42.64  | 47.38  | 29.37   | 45.57 | 0.53  | 18.42 | 74.06 | 1.613 | 9.96    | 3.00         |
| 3 **-3   | 1.00     | 83.7  | 22.00 | 42.64  | 17.00 | 48.51  | 36.77  | 22.54   | 48.57 | 0.53  | 18.36 | 74.56 | 1.631 | 13.16   | 4.56         |
| 4 **-4   | 1.00     | 69.3  | 29.00 | 37.14  | 19.00 | 45.88  | 47.02  | 24.96   | 51.98 | 0.53  | 18.26 | 75.13 | 1.884 | 12.09   | 6.09         |
| 5 **-5   | 1.00     | 72.0  | 26.00 | 39.22  | 26.00 | 39.22  | 38.39  | 34.38   | 51.35 | 0.53  | 18.28 | 75.02 | 1.116 | 14.22   | 7.63         |
| 6 **-6   | 1.00     | 85.9  | 22.00 | 42.64  | 21.00 | 43.64  | 35.10  | 27.95   | 48.04 | 0.53  | 18.37 | 74.47 | 1.256 | 12.78   | 9.16         |
| 7 **-7   | 1.00     | 78.9  | 23.00 | 41.70  | 28.00 | 37.80  | 32.54  | 37.23   | 49.71 | 0.53  | 18.33 | 74.75 | 0.874 | 9.88    | 10.72        |
| 8 **-8   | 1.00     | 79.9  | 24.00 | 40.82  | 22.00 | 42.64  | 37.69  | 29.18   | 49.48 | 0.53  | 18.33 | 74.71 | 1.292 | 12.01   | 12.26        |
| 9 **-9   | 1.00     | 104.9 | 15.00 | 51.64  | 22.00 | 42.64  | 21.95  | 29.70   | 43.37 | 0.53  | 18.45 | 73.69 | 0.739 | 8.36    | 13.82        |
| 10 **-10 | 1.00     | 84.9  | 29.00 | 37.14  | 19.00 | 45.88  | 50.52  | 25.14   | 48.26 | 0.53  | 18.37 | 74.50 | 2.009 | 12.47   | 15.34        |

# Allied Technology Group

# Chain of Custody

Client Name: Fl. McClellan

P.O.# \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name/#: Fl. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Analysis Required

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected |
|-----------------------|----------------|----------------|
| 3182021               | 8-4-00         | 12:00          |
| 3182022               | ↓              | ↓              |
| 3182023               | ↓              | ↓              |
| 3182024               | ↓              | ↓              |
| 3182025               | ↓              | ↓              |
| 3182026               | ↓              | ↓              |
| 3182027               | ↓              | ↓              |
| 3182028               | ↓              | ↓              |
| 3182029               | ↓              | ↓              |
| 3182030               | 8-4-00         | 12:00          |

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|  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|

Remarks: No DIRECT SUNLIGHT

| Name of Shipper   | Airbill No. | Date | Time          | Seals Intact? | Sample Relinquished By    | Date          | Time         | Sample Received By | Date | Time |
|-------------------|-------------|------|---------------|---------------|---------------------------|---------------|--------------|--------------------|------|------|
|                   |             |      |               |               | <u>Charles Birchfield</u> | <u>8/7/00</u> | <u>10:00</u> |                    |      |      |
| Received by (Lab) | Date        | Time | Seals Intact? |               |                           |               |              |                    |      |      |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh

Telephone: (865) 425-5011

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY, INC. FORM ATGF-059

ID:3182

15 AUG 2000 21:02

USER: J

COMMENT:021-030

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# :YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC :YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H XERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C XERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench limits Low: 4.535 High:312.33

| SAM NO | POS   | TIME MIN | H#    | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|-------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |       | CPM   | XERROR | CPM   | XERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 86.3  | 24.00 | 40.82  | 22.00 | 42.64  | 38.84  | 29.27   | 47.94 | 0.53  | 18.37 | 74.45 | 1.327 | 12.88   | 1.48         |
| 2      | 11-2  | 1.00     | 97.0  | 14.00 | 53.45  | 19.00 | 45.88  | 20.51  | 25.52   | 45.33 | 0.53  | 18.43 | 74.02 | 0.804 | 7.00    | 3.00         |
| 3      | 11-3  | 1.00     | 87.4  | 25.00 | 40.00  | 26.00 | 39.22  | 39.08  | 34.67   | 47.67 | 0.53  | 18.38 | 74.41 | 1.127 | 4.93    | 4.54         |
| 4      | 11-4  | 1.00     | 78.6  | 15.00 | 51.64  | 18.00 | 47.14  | 21.32  | 23.93   | 49.79 | 0.53  | 18.33 | 74.76 | 0.891 | 8.54    | 6.07         |
| 5      | 11-5  | 1.00     | 81.0  | 22.00 | 42.64  | 18.00 | 47.14  | 35.82  | 23.86   | 49.21 | 0.53  | 18.34 | 74.66 | 1.501 | 6.71    | 7.61         |
| 6      | 11-6  | 1.00     | 105.0 | 14.00 | 53.45  | 18.00 | 47.14  | 21.97  | 24.27   | 43.33 | 0.53  | 18.45 | 73.68 | 0.905 | 5.76    | 9.12         |
| 7      | 11-7  | 1.00     | 99.6  | 23.00 | 41.70  | 17.00 | 48.51  | 42.12  | 22.70   | 44.67 | 0.53  | 18.44 | 73.91 | 1.855 | 4.44    | 10.67        |
| 8      | 11-8  | 1.00     | 77.5  | 12.00 | 57.74  | 19.00 | 45.88  | 14.71  | 25.30   | 50.06 | 0.53  | 18.32 | 74.80 | 0.582 | 5.97    | 12.19        |
| 9      | 11-9  | 1.00     | 89.5  | 24.00 | 40.82  | 20.00 | 44.72  | 40.51  | 26.62   | 47.15 | 0.53  | 18.39 | 74.32 | 1.522 | 5.58    | 13.74        |
| 10     | 11-10 | 1.00     | 96.5  | 18.00 | 47.14  | 17.00 | 48.51  | 30.38  | 22.74   | 45.45 | 0.53  | 18.42 | 74.04 | 1.336 | 8.27    | 15.28        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O. #

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100 Phase II

Sampler: *Charles Birchfield*

| Sample Identification   | Date Collected | Time Collected | Analysis Required |   |        |                    | Remarks             |      |      |
|---|----------------|----------------|-------------------|---|--------|--------------------|---------------------|------|------|
| 31820A1   | 9-5-00         | 09:00          | H3                |   |        |                    | NO DIRECT SUN LIGHT |      |      |
| 31820A2   | ↙              | ↘              | X                 |   |        |                    |                     |      |      |
| 31820A3   |                |                | X                 |   |        |                    |                     |      |      |
| 31820A4   |                |                | X                 |   |        |                    |                     |      |      |
| 31820A5   |                |                | X                 |   |        |                    |                     |      |      |
| 31820A6   |                |                | X                 |   |        |                    |                     |      |      |
| 31820A7   |                |                | X                 |   |        |                    |                     |      |      |
| 31820A8   |                |                | X                 |   |        |                    |                     |      |      |
| 31820A9   | ↙              | ↘              | X                 |   |        |                    |                     |      |      |
| 31820A10  | 9-5-00         | 09:00          | X                 |   |        | NO DIRECT SUNLIGHT |                     |      |      |
| Name of Shipper:  | Airbill No.    | Date           | Time              | Sample Relinquished By:                           | Date   | Time               | Sample Received By: | Date | Time |
|   |                |                |                   | <i>Charles Birchfield</i>                         | 8/9/00 | 10:00              |                     |      |      |
| Received by (Lab)   | Date           | Time           | Seals Intact?     | Report Results To: Mark McHugh                    |        |                    |                     |      |      |
|   |                |                |                   | Address: 669 Emory Valley Rd. Oak Ridge, TN 37830 |        |                    |                     |      |      |
| Turnaround Time Requested (please circle): <u>Normal</u> Rush |                |                |                   | Telephone: (865) 425-5011                         |        |                    |                     |      |      |
| (Rush TAT is subject to MSAL approval and surcharge)          |                |                |                   | Type of Disposal:                                 |        |                    |                     |      |      |
| Report Results By: (Date)                                     |                |                |                   | Authorized for Disposal By:                       |        |                    |                     |      |      |
| Rush results requested by (please circle): Phone <u>Fax</u>   |                |                |                   | Date/Time of Disposal:                            |        |                    |                     |      |      |
| Date/Time of Disposal:  |                |                |                   | Disposed of By:                                   |        |                    |                     |      |      |

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: 3182

16 AUG 2000 16:28

USER: 8

COMMENT:QA1-QA10

PRESET TIME : 1.00

DATA CALC : DL DPM H# :YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF

TWO PHASE : NO AQC :YES CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High:312.33

| S/N | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|-----|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|     |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1   | 1.00     | 84.1 | 26.00 | 39.22  | 26.00 | 39.22  | 40.53  | 34.59   | 48.47 | 0.53  | 18.36 | 74.54 | 1.172 | 10.86   | 1.49         |
| 2   | 1.00     | 76.0 | 20.00 | 44.72  | 22.00 | 42.64  | 29.08  | 29.18   | 50.40 | 0.53  | 18.31 | 74.86 | 0.997 | 8.04    | 3.01         |
| 3   | 1.00     | 73.9 | 63.00 | 25.20  | 26.00 | 39.22  | 111.61 | 33.90   | 50.89 | 0.53  | 18.30 | 74.94 | 3.292 | 35.34   | 4.57         |
| 4   | 1.00     | 91.8 | 10.00 | 63.25  | 23.00 | 41.70  | 9.25   | 30.92   | 46.60 | 0.53  | 18.40 | 74.23 | 0.299 | 6.51    | 6.09         |
| 5   | 1.00     | 80.0 | 16.00 | 50.00  | 20.00 | 44.72  | 22.48  | 26.61   | 49.46 | 0.53  | 18.34 | 74.70 | 0.845 | 7.66    | 7.65         |
| 6   | 1.00     | 84.0 | 45.00 | 29.81  | 27.00 | 38.49  | 79.29  | 35.66   | 48.49 | 0.53  | 18.36 | 74.54 | 2.224 | 6.71    | 9.16         |
| 7   | 1.00     | 80.5 | 10.00 | 63.25  | 23.00 | 41.70  | 8.85   | 30.74   | 49.33 | 0.53  | 18.34 | 74.68 | 0.288 | 7.64    | 10.70        |
| 8   | 1.00     | 79.2 | 24.00 | 40.82  | 22.00 | 42.64  | 37.58  | 29.17   | 49.63 | 0.53  | 18.33 | 74.73 | 1.288 | 6.21    | 12.24        |
| 9   | 1.00     | 94.8 | 14.00 | 53.45  | 16.00 | 50.00  | 21.92  | 21.43   | 45.87 | 0.53  | 18.42 | 74.11 | 1.023 | 7.21    | 13.78        |
| 10  | 1.00     | 88.0 | 10.00 | 63.25  | 23.00 | 41.70  | 9.11   | 30.86   | 47.52 | 0.53  | 18.38 | 74.38 | 0.295 | 7.99    | 15.31        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O.# \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100 Phase II

Sampler: Charles Birchfield

| Sample Identification  | Date Collected | Time Collected | Analysis Required | Remarks  |               |              |                    |      |      |
|--|----------------|----------------|-------------------|--|---------------|--------------|--------------------|------|------|
| 31820A11   | 8-5-00         | 09:00          | SI                | No DIRECT SUN LIGHT  |               |              |                    |      |      |
| 31820A12   | ↙              | ↘              | X                 |  |               |              |                    |      |      |
| 31820A13   | ↙              | ↘              | X                 |  |               |              |                    |      |      |
| 31820A14   | ↙              | ↘              | X                 |  |               |              |                    |      |      |
| 31820A15   | ↙              | ↘              | X                 |  |               |              |                    |      |      |
| 31820A16   | ↙              | ↘              | X                 |  |               |              |                    |      |      |
| 31820A17   | ↙              | ↘              | X                 |  |               |              |                    |      |      |
| 31820A18   | ↙              | ↘              | X                 |  |               |              |                    |      |      |
| 31820A19   | ↙              | ↘              | X                 |  |               |              |                    |      |      |
| 31820A20   | 8-5-00         | 09:00          | X                 | No DIRECT SUN LIGHT  |               |              |                    |      |      |
| Name of Shipper  | Airbill No.    | Date           | Time              | Sample Relinquished By   | Date          | Time         | Sample Received By | Date | Time |
|  |                |                |                   | <u>Charles Birchfield</u>  | <u>8/7/00</u> | <u>10:00</u> |                    |      |      |
| Received by (Lab)  | Date           | Time           | Seals Intact?     |  |               |              |                    |      |      |
|  |                |                |                   |  |               |              |                    |      |      |
| Turnaround Time Requested (please circle) <u>Normal</u> Rush |                |                |                   | Report Results To: <u>Mark McHugh</u> Telephone: <u>(865) 425-5011</u> |               |              |                    |      |      |
| (Rush TAT is subject to MSAI approval and surcharge)         |                |                |                   | Address: <u>669 Emory Valley Rd. Oak Ridge, TN 37830</u>               |               |              |                    |      |      |
| Report Results By: (Date) _____                              |                |                |                   | Type of Disposal: _____ Authorized for Disposal By: _____              |               |              |                    |      |      |
| Rush results requested by (please circle): Phone <u>Fax</u>  |                |                |                   | Date/Time of Disposal: _____ Disposed of By: _____                     |               |              |                    |      |      |

669 Emory Valley Rd., Oak Ridge, Tennessee 37830

Tel. (865) 425-5000

Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID:3182

16 AUG 2000 14:24

USER: 9 COMMENT:QA11-QA20

PRESET TIME : 1.00

DATA CALC : DL DPM H# :YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF

TWO PHASE : NO AQC :YES CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench limits Low: 4.535 High:312.33

| SAM NO | POS   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 81.3 | 28.00 | 37.80  | 17.00 | 48.51  | 48.60  | 22.43   | 49.14 | 0.53  | 18.34 | 74.65 | 2.167 | 14.47   | 1.47         |
| 2      | 11-2  | 1.00     | 91.1 | 14.00 | 53.45  | 16.00 | 50.00  | 21.52  | 21.39   | 46.76 | 0.53  | 18.40 | 74.26 | 1.006 | 16.86   | 2.99         |
| 3      | 11-3  | 1.00     | 88.4 | 25.00 | 40.00  | 26.00 | 39.22  | 39.27  | 34.68   | 47.42 | 0.53  | 18.39 | 74.37 | 1.132 | 8.20    | 4.54         |
| 4      | 11-4  | 1.00     | 89.3 | 14.00 | 53.45  | 18.00 | 47.14  | 20.28  | 24.07   | 47.20 | 0.53  | 18.39 | 74.33 | 0.842 | 8.94    | 6.06         |
| 5      | 11-5  | 1.00     | 80.4 | 25.00 | 40.00  | 22.00 | 42.64  | 39.82  | 29.18   | 49.35 | 0.53  | 18.34 | 74.68 | 1.365 | 9.08    | 7.60         |
| 6      | 11-6  | 1.00     | 80.9 | 23.00 | 41.70  | 30.00 | 36.51  | 31.82  | 39.95   | 49.25 | 0.53  | 18.34 | 74.67 | 0.797 | 6.79    | 9.13         |
| 7      | 11-7  | 1.00     | 85.0 | 96.00 | 20.41  | 19.00 | 45.88  | 189.80 | 24.16   | 48.24 | 0.53  | 18.37 | 74.50 | 7.856 | 42.74   | 10.72        |
| 8      | 11-8  | 1.00     | 84.0 | 21.00 | 43.64  | 24.00 | 40.82  | 31.19  | 31.98   | 48.50 | 0.53  | 18.36 | 74.54 | 0.976 | 7.93    | 12.25        |
| 9      | 11-9  | 1.00     | 91.3 | 18.00 | 47.14  | 16.00 | 50.00  | 30.13  | 21.34   | 46.71 | 0.53  | 18.40 | 74.25 | 1.412 | 10.31   | 13.79        |
| 10     | 11-10 | 1.00     | 85.0 | 24.00 | 40.82  | 29.00 | 37.14  | 35.02  | 38.68   | 48.25 | 0.53  | 18.37 | 74.50 | 0.905 | 9.25    | 15.33        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O. #

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification                             | Date Collected | Time Collected                                    | Analysis Required                          | Remarks                     |
|---|----------------|---|--|-----------------------------|
| 31820A21  | 9-5-00         | 09:00   | H3   | NO DIRECT SUN LIGHT         |
| 31820A22  |                |   |  |                             |
| 31820A23  |                |   |  |                             |
| 31820A24  |                |   |  |                             |
| 31820A25  |                |   |  |                             |
| 31820A26  |                |   |  |                             |
| 31820A27  |                |   |  |                             |
| 31820A28  |                |   |  |                             |
| 31820A29  |                |   |  |                             |
| 31820A30  | 9-5-00         | 09:00   |  | NO DIRECT SUN LIGHT         |
| Name of Shipper                                   | Airbill No.    | Date  | Sample Relinquished By: Charles Birchfield | Date: 9/2/00 Time: 10:00    |
| Received by (Lab)                                 | Date           | Time  | Sample Received By:                        | Date                        |
| Turnaround Time Requested (please circle): Normal |                | Rush  |  | Seals Intact?               |
| Report Results By: (Date)                         |                | Report Results To: Mark McHugh                    |  | Telephone: (865) 425-5011   |
| Rush results requested by (please circle): Fax    |                | Address: 669 Emory Valley Rd. Oak Ridge, TN 37830 |  | Authorized for Disposal By: |
| Phone   |                | Type of Disposal:                                 |  | Disposed of By:             |
| Date/Time of Disposal:                            |                |   |  |                             |

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID:3182

16 AUG 2000 15:48

USER: 3 COMMENT:QA21-QA30

PRESET TIME : 1.00

DATA CALC : DL DPM H# :YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF

TWO PHASE : NO AQC :YES CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High:312.33

| SAM NO | POS   | TIME MIN | H#    | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|-------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |       | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 96.5  | 15.00 | 51.64  | 31.00 | 35.92  | 16.08  | 41.76   | 45.44 | 0.53  | 18.42 | 74.04 | 0.385 | 9.72    | 1.49         |
| 2      | 11-2  | 1.00     | 80.2  | 24.00 | 40.82  | 24.00 | 40.82  | 36.75  | 31.87   | 49.41 | 0.53  | 18.34 | 74.69 | 1.153 | 7.59    | 3.01         |
| 3      | 11-3  | 1.00     | 98.4  | 24.00 | 40.82  | 22.00 | 42.64  | 41.29  | 29.45   | 44.98 | 0.53  | 18.43 | 73.96 | 1.402 | 5.05    | 4.54         |
| 4      | 11-4  | 1.00     | 105.8 | 50.00 | 28.28  | 17.00 | 48.51  | 106.34 | 22.32   | 43.15 | 0.53  | 18.46 | 73.65 | 4.765 | 28.01   | 6.07         |
| 5      | 11-5  | 1.00     | 75.7  | 14.00 | 53.45  | 22.00 | 42.64  | 17.12  | 29.26   | 50.47 | 0.53  | 18.31 | 74.87 | 0.585 | 7.46    | 7.63         |
| 6      | 11-6  | 1.00     | 119.8 | 27.00 | 38.49  | 26.00 | 39.22  | 51.72  | 35.22   | 39.63 | 0.54  | 18.47 | 73.04 | 1.469 | 8.29    | 9.15         |
| 7      | 11-7  | 1.00     | 80.5  | 19.00 | 45.88  | 20.00 | 44.72  | 28.63  | 26.58   | 49.33 | 0.53  | 18.34 | 74.68 | 1.077 | 6.10    | 10.69        |
| 8      | 11-8  | 1.00     | 86.7  | 16.00 | 50.00  | 25.00 | 40.00  | 20.60  | 33.44   | 47.85 | 0.53  | 18.38 | 74.44 | 0.616 | 5.92    | 12.23        |
| 9      | 11-9  | 1.00     | 77.5  | 22.00 | 42.64  | 21.00 | 43.64  | 33.77  | 27.84   | 50.05 | 0.53  | 18.32 | 74.80 | 1.213 | 6.30    | 13.77        |
| 10     | 11-10 | 1.00     | 79.6  | 16.00 | 50.00  | 24.00 | 40.82  | 20.46  | 31.98   | 49.56 | 0.53  | 18.33 | 74.72 | 0.640 | 6.83    | 15.30        |

# Allied Technology Group

Group # 2

# Chain of Custody

Client Name: Ft. McClellan P.O.# \_\_\_\_\_

Phone #: (256) 848-6725 Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks             |
|-----------------------|----------------|----------------|-------------------|---------------------|
| T 91D A1              | 8/9/00         | 11:00          | X                 | NO DIRECT SUN LIGHT |
| T 81D A2              | ↓              | ↓              | X                 | ↓                   |
| T 81D B1              | ↓              | ↓              | X                 | ↓                   |
| T 81D B2              | ↓              | ↓              | X                 | ↓                   |
| T 81D B3              | ↓              | ↓              | X                 | ↓                   |
| T 91D C1              | ↓              | ↓              | X                 | ↓                   |
| T 81D C2              | ↓              | ↓              | X                 | ↓                   |
| T 81D D1              | ↓              | ↓              | X                 | ↓                   |
| T 81D D2              | ↓              | ↓              | X                 | ↓                   |
| T 81D D3              | 8/9/00         | 11:00          | X                 | NO DIRECT SUN LIGHT |

Name of Shipper: \_\_\_\_\_ Airbill No. \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by (Lab): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Seals Intact? \_\_\_\_\_

Turnaround Time Requested (please circle): Normal Rush

Report Results By: (Date) \_\_\_\_\_ Phone Fax \_\_\_\_\_

Rush results requested by (please circle): \_\_\_\_\_

Sample Relinquished By: Charles Birchfield Date: 8/9/00 Time: 12:00

Sample Received By: M. Kuyper Date: 8-21-00 Time: 10:00

Report Results To: Mark McHugh Telephone: (865) 425-5011

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY, INC., FORM ATGF-059

ID: FT MCCLELLAN

21 AUG 2000 16:48

USER: 9

COMMENT: T810A1-T810D3

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|----------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|          |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1 11-1   | 1.00     | 78.8 | 27.00 | 38.49  | 26.00 | 39.22  | 41.57  | 34.49   | 49.75 | 0.53  | 18.33 | 74.75 | 1.205 | 10.84   | 1.46         |
| 2 11-2   | 1.00     | 69.6 | 30.00 | 36.51  | 21.00 | 43.64  | 48.08  | 27.62   | 51.90 | 0.53  | 18.27 | 75.11 | 1.741 | 7.48    | 2.98         |
| 3 11-3   | 1.00     | 65.3 | 20.00 | 44.72  | 24.00 | 40.82  | 26.88  | 31.69   | 52.91 | 0.54  | 18.24 | 75.29 | 0.848 | 7.49    | 4.54         |
| 4 11-4   | 1.00     | 79.7 | 20.00 | 44.72  | 18.00 | 47.14  | 31.55  | 23.87   | 49.51 | 0.53  | 18.33 | 74.71 | 1.322 | 6.65    | 6.05         |
| 5 11-5   | 1.00     | 78.6 | 21.00 | 43.64  | 21.00 | 43.64  | 31.92  | 27.86   | 49.79 | 0.53  | 18.33 | 74.76 | 1.146 | 4.62    | 7.60         |
| 6 11-6   | 1.00     | 72.1 | 23.00 | 41.70  | 23.00 | 41.70  | 33.98  | 30.42   | 51.31 | 0.53  | 18.28 | 75.01 | 1.117 | 5.45    | 9.12         |
| 7 11-7   | 1.00     | 71.2 | 15.00 | 51.64  | 21.00 | 43.64  | 19.24  | 27.85   | 51.52 | 0.53  | 18.28 | 75.05 | 0.691 | 8.10    | 10.66        |
| 8 11-8   | 1.00     | 63.5 | 23.00 | 41.70  | 22.00 | 42.64  | 33.24  | 28.96   | 53.32 | 0.54  | 18.22 | 75.36 | 1.148 | 5.40    | 12.19        |
| 9 11-9   | 1.00     | 71.6 | 22.00 | 42.64  | 16.00 | 50.00  | 35.28  | 21.07   | 51.44 | 0.53  | 18.28 | 75.03 | 1.674 | 4.75    | 13.73        |
| 10 11-10 | 1.00     | 66.1 | 15.00 | 51.64  | 20.00 | 44.72  | 19.31  | 26.44   | 52.71 | 0.54  | 18.24 | 75.25 | 0.730 | 7.95    | 15.27        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O. # \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100 Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required |                           |        |       | Remarks             |         |       |
|-----------------------|----------------|----------------|-------------------|---------------------------|--------|-------|---------------------|---------|-------|
| T 810 E1              | 8/8/00         | 11:00          | H3                |                           |        |       | No DIRECT SUNLIGHT  |         |       |
| T 810 E2              | ↙              | ↘              | X                 | ✓                         |        |       |                     |         |       |
| T 810 F1              | ↙              | ↘              | X                 | ✓                         |        |       |                     |         |       |
| T 810 E2              | ↙              | ↘              | X                 | ✓                         |        |       |                     |         |       |
| T 810 E3              | ↙              | ↘              | X                 | ✓                         |        |       |                     |         |       |
| T 811 A1              | ↙              | ↘              | X                 | ✓                         |        |       |                     |         |       |
| T 811 A2              | ↙              | ↘              | X                 | ✓                         |        |       |                     |         |       |
| T 811 B1              | ↙              | ↘              | X                 | ✓                         |        |       |                     |         |       |
| T 811 B2              | ↙              | ↘              | X                 | ✓                         |        |       |                     |         |       |
| T 811 B3              | 8/9/00         | 11:00          | X                 | ✓                         |        |       | No DIRECT SUNLIGHT  |         |       |
| Name of Shipper:      | Airbill No.    | Date           | Time              | Sample Relinquished By:   | Date   | Time  | Sample Received By: | Date    | Time  |
|                       |                |                |                   | <u>Charles Birchfield</u> | 8/9/00 | 12:00 | <u>M. Kuyper</u>    | 8-21-00 | 10:00 |
| Received by (Lab):    | Date           | Time           | Seals Intact?     |                           |        |       |                     |         |       |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAI approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh Telephone: (865) 425-5011

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: FT MCCLELLAN

21 AUG 2000 17:08

USER: 9 COMMENT: TB10E1-TB11B3

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM<br>NC | TIME<br>MIN | H#   | 3H    |        | 14C   |        | 3H<br>DPH | 14C<br>DPH | 3H    |       | 14C   |       | RATIO | LUMEX<br>% | ELAPSED<br>TIME |
|-----------|-------------|------|-------|--------|-------|--------|-----------|------------|-------|-------|-------|-------|-------|------------|-----------------|
|           |             |      | CPM   | ZERROR | CPM   | ZERROR |           |            | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |            |                 |
| 1 **-1    | 1.00        | 73.9 | 20.00 | 44.72  | 26.00 | 39.22  | 26.89     | 34.50      | 50.90 | 0.53  | 18.30 | 74.94 | 0.779 | 6.16       | 1.46            |
| 2 **-2    | 1.00        | 81.1 | 18.00 | 47.14  | 18.00 | 47.14  | 27.67     | 23.91      | 49.20 | 0.53  | 18.34 | 74.66 | 1.157 | 3.90       | 2.97            |
| 3 **-3    | 1.00        | 66.3 | 29.00 | 37.14  | 21.00 | 43.64  | 45.50     | 27.58      | 52.67 | 0.54  | 18.24 | 75.25 | 1.650 | 4.03       | 4.53            |
| 4 **-4    | 1.00        | 74.0 | 21.00 | 43.64  | 25.00 | 40.00  | 29.35     | 33.15      | 50.89 | 0.53  | 18.30 | 74.94 | 0.885 | 3.36       | 6.05            |
| 5 **-5    | 1.00        | 66.1 | 22.00 | 42.64  | 33.00 | 34.82  | 26.62     | 43.66      | 52.72 | 0.54  | 18.24 | 75.25 | 0.610 | 3.64       | 7.59            |
| 6 **-6    | 1.00        | 67.1 | 19.00 | 45.88  | 16.00 | 50.00  | 28.88     | 21.07      | 52.48 | 0.54  | 18.25 | 75.21 | 1.371 | 4.08       | 9.11            |
| 7 **-7    | 1.00        | 65.8 | 36.00 | 33.33  | 24.00 | 40.82  | 57.33     | 31.48      | 52.78 | 0.54  | 18.24 | 75.26 | 1.821 | 22.60      | 10.66           |
| 8 **-8    | 1.00        | 64.9 | 17.00 | 48.51  | 20.00 | 44.72  | 23.00     | 26.40      | 52.99 | 0.54  | 18.23 | 75.30 | 0.871 | 3.82       | 12.18           |
| 9 **-9    | 1.00        | 66.2 | 21.00 | 43.64  | 20.00 | 44.72  | 30.73     | 26.36      | 52.70 | 0.54  | 18.24 | 75.25 | 1.166 | 3.10       | 13.72           |
| 10 **-10  | 1.00        | 70.2 | 13.00 | 55.47  | 20.00 | 44.72  | 15.75     | 26.52      | 51.75 | 0.53  | 18.27 | 75.09 | 0.594 | 3.82       | 15.25           |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan P.O.# \_\_\_\_\_

Phone #: (256) 848-6725 Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required                   | Remarks               |
|-----------------------|----------------|----------------|-------------------------------------|-----------------------|
| T 811 C1              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> | No DIRECT Seal intact |
| T 811 C2              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> |                       |
| T 811 D1              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> | No DIRECT Seal intact |
| T 811 D2              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> |                       |
| T 811 D3              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> | No DIRECT Seal intact |
| T 811 E1              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> |                       |
| T 811 E2              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> | No DIRECT Seal intact |
| T 811 F1              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> |                       |
| T 811 F2              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> | No DIRECT Seal intact |
| T 811 F3              | 8/8/00         | 11:00          | <input checked="" type="checkbox"/> |                       |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Sample Relinquished By: Charles Birchfield Date: 8/14/00 Time: 09:00 Sample Received By: W.L. Knapp Date: 8-21-00 Time: 10:00

Report Results To: Mark McHugh Telephone: (865) 425-5011

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY, INC., FORM ATGF-059

ID: FT MCCLELLAN

22 AUG 2000 06:04

USER: 9 COMMENT: T811C1 - T811F3

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO ADC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NL   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|----------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|          |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1 **-1   | 1.00     | 72.6 | 16.00 | 50.00  | 27.00 | 38.49  | 18.43  | 35.87   | 51.21 | 0.53  | 18.29 | 75.00 | 0.514 | 8.81    | 1.48         |
| 2 **-2   | 1.00     | 69.9 | 26.00 | 39.22  | 23.00 | 41.70  | 39.47  | 30.34   | 51.83 | 0.53  | 18.27 | 75.10 | 1.301 | 8.03    | 2.99         |
| 3 **-3   | 1.00     | 88.6 | 15.00 | 51.64  | 23.00 | 41.70  | 19.71  | 30.79   | 47.39 | 0.53  | 18.39 | 74.36 | 0.640 | 5.83    | 4.54         |
| 4 **-4   | 1.00     | 72.3 | 20.00 | 44.72  | 29.00 | 37.14  | 25.28  | 38.48   | 51.28 | 0.53  | 18.29 | 75.01 | 0.657 | 6.12    | 6.06         |
| 5 **-5   | 1.00     | 72.4 | 23.00 | 41.70  | 23.00 | 41.70  | 34.02  | 30.42   | 51.25 | 0.53  | 18.29 | 75.00 | 1.118 | 4.37    | 7.59         |
| 6 **-6   | 1.00     | 88.5 | 21.00 | 43.64  | 13.00 | 55.47  | 37.63  | 17.22   | 47.40 | 0.53  | 18.39 | 74.36 | 2.186 | 3.81    | 9.11         |
| 7 **-7   | 1.00     | 77.4 | 14.00 | 53.45  | 16.00 | 50.00  | 20.19  | 21.25   | 50.07 | 0.53  | 18.32 | 74.80 | 0.950 | 5.78    | 10.64        |
| 8 **-8   | 1.00     | 78.1 | 23.00 | 41.70  | 20.00 | 44.72  | 36.36  | 26.49   | 49.91 | 0.53  | 18.32 | 74.78 | 1.373 | 5.36    | 12.15        |
| 9 **-9   | 1.00     | 69.7 | 24.00 | 40.82  | 24.00 | 40.82  | 35.10  | 31.70   | 51.88 | 0.53  | 18.27 | 75.11 | 1.107 | 5.24    | 13.70        |
| 10 **-10 | 1.00     | 75.1 | 12.00 | 57.74  | 26.00 | 39.22  | 11.18  | 34.64   | 50.62 | 0.53  | 18.30 | 74.90 | 0.323 | 5.16    | 15.23        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O. # \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Birchfield

| Sample Identification | Date Collected | Time Collected | Analysis Required |      | Remarks            |
|-----------------------|----------------|----------------|-------------------|------|--------------------|
|                       |                |                | Date              | Time |                    |
| T 812 A1              | 8/2/00         | 11:00          | X                 | ✓    | No DIRECT SUNLIGHT |
| T 812 A2              | ↙              | ↘              | X                 | ✓    |                    |
| T 812 B1              |                |                | X                 | ✓    | No DIRECT SUNLIGHT |
| T 812 B2              |                |                | X                 | ✓    |                    |
| T 812 B3              |                |                | X                 | ✓    | No DIRECT SUNLIGHT |
| T 812 C1              |                |                | X                 | ✓    |                    |
| T 812 C2              |                |                | X                 | ✓    | No DIRECT SUNLIGHT |
| T 812 D1              |                |                | X                 | ✓    |                    |
| T 812 D2              |                |                | X                 | ✓    | No DIRECT SUNLIGHT |
| T 812 D3              | 9/8/00         | 11:00          | X                 | ✓    |                    |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh Telephone: (865) 425-5011

Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Type of Disposal: \_\_\_\_\_ Authorized for Disposal By: \_\_\_\_\_

Date/Time of Disposal: \_\_\_\_\_ Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY, INC., FORM ATGF-059

ID: FT MCCLELLAN

22 AUG 2000 06:32

USER: 9 COMMENT: T812A1 - T812D3

PRESET TIME : 1.00  
DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#   | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |      | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 68.1 | 59.00 | 26.04  | 22.00 | 42.64  | 102.93 | 28.53   | 52.26 | 0.54  | 18.26 | 75.17 | 3.608 | 35.50   | 1.50         |
| 2      | 11-2  | 1.00     | 67.1 | 26.00 | 39.22  | 27.00 | 38.49  | 37.15  | 35.63   | 52.49 | 0.54  | 18.25 | 75.21 | 1.042 | 5.45    | 3.01         |
| 3      | 11-3  | 1.00     | 66.1 | 22.00 | 42.64  | 34.00 | 34.30  | 26.16  | 44.99   | 52.72 | 0.54  | 18.24 | 75.25 | 0.581 | 4.85    | 4.57         |
| 4      | 11-4  | 1.00     | 67.1 | 86.00 | 21.57  | 14.00 | 53.45  | 157.75 | 17.49   | 52.49 | 0.54  | 18.25 | 75.21 | 9.020 | 46.04   | 6.11         |
| 5      | 11-5  | 1.00     | 72.2 | 26.00 | 39.22  | 26.00 | 39.22  | 38.43  | 34.39   | 51.29 | 0.53  | 18.28 | 75.01 | 1.118 | 3.45    | 7.65         |
| 6      | 11-6  | 1.00     | 70.5 | 43.00 | 30.50  | 26.00 | 39.22  | 71.12  | 34.12   | 51.69 | 0.53  | 18.27 | 75.08 | 2.084 | 24.04   | 9.19         |
| 7      | 11-7  | 1.00     | 74.2 | 19.00 | 45.88  | 21.00 | 43.64  | 27.36  | 27.83   | 50.83 | 0.53  | 18.30 | 74.93 | 0.983 | 6.70    | 10.73        |
| 8      | 11-8  | 1.00     | 67.0 | 21.00 | 43.64  | 22.00 | 42.64  | 29.90  | 29.04   | 52.51 | 0.54  | 18.25 | 75.22 | 1.030 | 4.25    | 12.26        |
| 9      | 11-9  | 1.00     | 70.3 | 20.00 | 44.72  | 20.00 | 44.72  | 29.32  | 26.43   | 51.74 | 0.53  | 18.27 | 75.09 | 1.110 | 3.70    | 13.81        |
| 10     | 11-10 | 1.00     | 66.9 | 17.00 | 48.51  | 26.00 | 39.22  | 20.40  | 34.42   | 52.54 | 0.54  | 18.25 | 75.22 | 0.593 | 3.39    | 15.33        |

PG # 4



ID: FT MCCLELLAN

22 AUG 2000 06:58

USER: 9 COMMENT: T812E1 - T812F3

PRESET TIME : 1.00  
 DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD  
 COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF  
 TWO PHASE : NO AQC : YES CYCLE REPEATS : 1  
 SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0  
 LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0  
 ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM<br># | POS  | TIME<br>MIN | H#   | 3H    |        | 14C   |        | 3H<br>DPM | 14C<br>DPM | 3H    |       | 14C   |       | RATIO | LUMEX<br>% | ELAPSED<br>TIME |
|----------|------|-------------|------|-------|--------|-------|--------|-----------|------------|-------|-------|-------|-------|-------|------------|-----------------|
|          |      |             |      | CPM   | ZERROR | CPM   | ZERROR |           |            | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |            |                 |
| 1        | 1#-1 | 1.00        | 63.4 | 57.00 | 26.49  | 19.00 | 45.88  | 98.50     | 24.51      | 53.33 | 0.54  | 18.22 | 75.36 | 4.019 | 43.41      | 1.50            |
| 2        | 1#-2 | 1.00        | 68.1 | 15.00 | 51.64  | 29.00 | 37.14  | 15.27     | 38.47      | 52.25 | 0.54  | 18.26 | 75.17 | 0.397 | 5.92       | 3.01            |
| 3        | 1#-3 | 1.00        | 68.3 | 17.00 | 48.51  | 21.00 | 43.64  | 22.85     | 27.78      | 52.21 | 0.54  | 18.26 | 75.17 | 0.823 | 6.37       | 4.56            |
| 4        | 1#-4 | 1.00        | 67.8 | 18.00 | 47.14  | 24.00 | 40.82  | 23.33     | 31.76      | 52.31 | 0.54  | 18.25 | 75.18 | 0.735 | 6.30       | 6.07            |
| 5        | 1#-5 | 1.00        | 72.4 | 30.00 | 36.51  | 30.00 | 36.51  | 44.38     | 39.68      | 51.24 | 0.53  | 18.29 | 75.00 | 1.118 | 5.38       | 7.62            |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O.# \_\_\_\_\_

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Bickfield

| Sample Identification | Date Collected | Time Collected | Analysis Required |      |               |                         | Remarks            |
|-----------------------|----------------|----------------|-------------------|------|---------------|-------------------------|--------------------|
|                       |                |                | Date              | Time | Seals Intact? | Sample Relinquished By: |                    |
| T837A1L               | 8-8-00         | 1100           | X                 | ✓    | ✓             | H3                      | No Direct sunlight |
| T837A2L               | ↘              | ↘              | X                 | ✓    | ✓             |                         |                    |
| T837A3L               |                |                | X                 | ✓    | ✓             |                         |                    |
| T837B1L               |                |                | X                 | ✓    | ✓             |                         |                    |
| T837B2L               |                |                | X                 | ✓    | ✓             |                         |                    |
| T837B3L               |                |                | X                 | ✓    | ✓             |                         |                    |
| T837C1L               |                |                | X                 | ✓    | ✓             |                         |                    |
| T837C2L               |                |                | X                 | ✓    | ✓             |                         |                    |
| T837C3L               |                |                | X                 | ✓    | ✓             |                         |                    |
| T837D1L               | 8-8-00         | 1100           | X                 | ✓    | ✓             |                         | No Direct sunlight |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh  
 Address: 669 Emory Valley Rd. Oak Ridge, TN 37830  
 Telephone: (865) 425-5011

Type of Disposal: \_\_\_\_\_  
 Date/Time of Disposal: \_\_\_\_\_

Authorized for Disposal By: \_\_\_\_\_  
 Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY, INC. FORM ATGF-059

ID: T837

22 AUG 2000 17:12

USER: 9 COMMENT: A1L-A3L, B1L-B3L, C1L-C3L, D1L

PRESET TIME : 1.00

DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF

TWO PHASE : NO AQC : YES CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Qu .its Low: 4.535 High: 312.33

| SAM NO | POS  | TIME MIN | H#    | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|------|----------|-------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |      |          |       | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | **1  | 1.00     | 91.4  | 26.00 | 39.22  | 13.00 | 55.47  | 48.93  | 17.16   | 46.68 | 0.53  | 18.40 | 74.24 | 2.851 | 8.55    | 1.47         |
| 2      | **2  | 1.00     | 98.2  | 22.00 | 42.64  | 13.00 | 55.47  | 41.79  | 17.28   | 45.02 | 0.53  | 18.43 | 73.97 | 2.419 | 6.10    | 3.00         |
| 3      | **3  | 1.00     | 91.4  | 19.00 | 45.88  | 27.00 | 38.49  | 26.43  | 36.18   | 46.70 | 0.53  | 18.40 | 74.25 | 0.731 | 5.33    | 4.54         |
| 4      | **4  | 1.00     | 99.6  | 11.00 | 60.30  | 18.00 | 47.14  | 14.61  | 24.25   | 44.68 | 0.53  | 18.44 | 73.91 | 0.603 | 4.32    | 6.06         |
| 5      | **5  | 1.00     | 93.9  | 16.00 | 50.00  | 23.00 | 41.70  | 22.39  | 30.86   | 46.08 | 0.53  | 18.41 | 74.14 | 0.725 | 4.52    | 7.59         |
| 6      | **6  | 1.00     | 100.8 | 19.00 | 45.88  | 20.00 | 44.72  | 31.65  | 26.85   | 44.39 | 0.53  | 18.44 | 73.86 | 1.179 | 4.56    | 9.11         |
| 7      | **7  | 1.00     | 100.9 | 16.00 | 50.00  | 21.00 | 43.64  | 24.33  | 28.26   | 44.35 | 0.53  | 18.44 | 73.85 | 0.861 | 5.39    | 10.65        |
| 8      | **8  | 1.00     | 94.3  | 19.00 | 45.88  | 20.00 | 44.72  | 30.60  | 26.76   | 45.98 | 0.53  | 18.41 | 74.13 | 1.143 | 5.93    | 12.18        |
| 9      | **9  | 1.00     | 59.4  | 26.00 | 39.22  | 33.00 | 34.82  | 33.36  | 43.46   | 54.23 | 0.54  | 18.20 | 75.52 | 0.768 | 3.22    | 13.71        |
| 10     | **10 | 1.00     | 96.9  | 30.00 | 36.51  | 25.00 | 40.00  | 52.59  | 33.40   | 45.34 | 0.53  | 18.43 | 74.02 | 1.575 | 5.01    | 15.24        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan P.O. # \_\_\_\_\_

Phone #: (256) 848-6725 Fax #: (256) 848-5517

Project Name: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100 Phase II

Sampler: Charles Binkfield

| Sample Identification | Date Collected | Time Collected | Analysis Required |      | Remarks            |
|-----------------------|----------------|----------------|-------------------|------|--------------------|
|                       |                |                | Date              | Time |                    |
| T837D2L               | 8-5-00         | 1100           | X                 | ✓    | no direct sunlight |
| T837D3L               | ↖              | ↗              | X                 | ✓    |                    |
| T837E1L               | ↖              | ↗              | X                 | ✓    | no direct sunlight |
| T837E2L               | ↖              | ↗              | X                 | ✓    |                    |
| T837E3L               | ↖              | ↗              | X                 | ✓    | no direct sunlight |
| T837F1L               | ↖              | ↗              | X                 | ✓    |                    |
| T837E2L               | ↖              | ↗              | X                 | ✓    | no direct sunlight |
| T837F3L               | ↖              | ↗              | X                 | ✓    |                    |
| T837A1U               | ↖              | ↗              | X                 | ✓    | no direct sunlight |
| T837A2U               | 8-8-00         | 1100           | X                 | ✓    |                    |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh  
 Address: 669 Emory Valley Rd. Oak Ridge, TN 37830  
 Telephone: (865) 425-5011

Type of Disposal: \_\_\_\_\_  
 Date/Time of Disposal: \_\_\_\_\_

Sample Relinquished By: Charles Binkfield Date: 8/4/00 Time: 09:00  
 Sample Received By: Mark McHugh

Authorized for Disposal By: \_\_\_\_\_  
 Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: T837

22 AUG 2000 17:53

USER: 9

COMMENT: D2L, D3L, E1L-E3L, F1L-F3L, A1U, A2U <sup>EN</sup>

PRESET TIME : 1.00

DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF

TWO PHASE : NO AQC : YES CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Qur its Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#    | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|-------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |       | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 90.4  | 21.00 | 43.64  | 21.00 | 43.64  | 33.75  | 28.03   | 46.95 | 0.53  | 18.40 | 74.29 | 1.204 | 6.99    | 1.46         |
| 2      | 11-2  | 1.00     | 99.3  | 26.00 | 39.22  | 19.00 | 45.88  | 47.64  | 25.36   | 44.76 | 0.53  | 18.44 | 73.92 | 1.878 | 5.18    | 2.97         |
| 3      | 11-3  | 1.00     | 86.5  | 20.00 | 44.72  | 19.00 | 45.88  | 32.06  | 25.30   | 47.89 | 0.53  | 18.37 | 74.44 | 1.267 | 4.65    | 4.53         |
| 4      | 11-4  | 1.00     | 105.4 | 16.00 | 50.00  | 30.00 | 36.51  | 19.69  | 40.58   | 43.23 | 0.53  | 18.45 | 73.67 | 0.485 | 4.35    | 6.04         |
| 5      | 11-5  | 1.00     | 107.5 | 23.00 | 41.70  | 34.00 | 34.30  | 33.98  | 45.96   | 42.72 | 0.53  | 18.46 | 73.58 | 0.739 | 3.01    | 7.58         |
| 6      | 11-6  | 1.00     | 81.9  | 29.00 | 37.14  | 24.00 | 40.82  | 47.26  | 31.83   | 49.00 | 0.53  | 18.35 | 74.63 | 1.485 | 3.38    | 9.09         |
| 7      | 11-7  | 1.00     | 89.1  | 11.00 | 60.30  | 31.00 | 35.92  | 7.07   | 41.65   | 47.26 | 0.53  | 18.39 | 74.34 | 0.170 | 3.34    | 10.62        |
| 8      | 11-8  | 1.00     | 87.0  | 23.00 | 41.70  | 13.00 | 55.47  | 41.55  | 17.17   | 47.76 | 0.53  | 18.38 | 74.42 | 2.419 | 3.77    | 12.16        |
| 9      | 11-9  | 1.00     | 88.3  | 20.00 | 44.72  | 16.00 | 50.00  | 33.90  | 21.27   | 47.45 | 0.53  | 18.38 | 74.37 | 1.594 | 4.54    | 13.69        |
| 10     | 11-10 | 1.00     | 121.2 | 26.00 | 39.22  | 20.00 | 44.72  | 53.49  | 27.01   | 39.28 | 0.54  | 18.46 | 72.98 | 1.980 | 5.09    | 15.23        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O. #

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: Charles Breefield

| Sample Identification | Date Collected | Time Collected | Analysis Required | Remarks            |
|-----------------------|----------------|----------------|-------------------|--------------------|
| T837A3U               | 8:00           | 11:00          | H <sub>3</sub>    | no direct sunlight |
| T837B1U               |                |                |                   |                    |
| T837B2U               |                |                |                   |                    |
| T837B3U               |                |                |                   |                    |
| T837C1U               |                |                |                   |                    |
| T837C2U               |                |                |                   |                    |
| T837D1U               |                |                |                   |                    |
| T837D2U               |                |                |                   |                    |
| T837D3U               | 8:00           | 11:00          |                   | no direct sunlight |

Name of Shipper: Airbill No. Date Date Time Sample Relinquished By: Charles Breefield Date 9/14/00 Time 09:00 Sample Received By: M.K. Kuyper Date 9-21-00 Time 10:00

Received by (Lab) Date Time Seals Intact? Report Results To: Mark McHugh Telephone: (865) 425-5011

Turnaround Time Requested (please circle): Normal Rush Report Results By: (Date) Address: 669 Emory Valley Rd. Oak Ridge, TN 37830

Rush results requested by (please circle): Phone Fax Date/Time of Disposal: Authorized for Disposal By: Disposed of By:

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057

ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: T837

22 AUG 2000 18:48

JSER: 9

COMMENT: A3U, B1U-B3U, C1U-C3U, D1U-D3U

PRESET TIME : 1.00

DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF

TWO PHASE : NO AQC : YES CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench limits Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#    | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|-------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |       | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 98.0  | 14.00 | 53.45  | 13.00 | 55.47  | 23.94  | 17.40   | 45.07 | 0.53  | 18.43 | 73.98 | 1.376 | 9.77    | 1.46         |
| 2      | 11-2  | 1.00     | 90.7  | 23.00 | 41.70  | 27.00 | 38.49  | 34.90  | 36.10   | 46.88 | 0.53  | 18.40 | 74.28 | 0.967 | 4.95    | 2.98         |
| 3      | 11-3  | 1.00     | 89.2  | 18.00 | 47.14  | 31.00 | 35.92  | 21.93  | 41.55   | 47.24 | 0.53  | 18.39 | 74.34 | 0.528 | 5.49    | 4.51         |
| 4      | 11-4  | 1.00     | 85.4  | 9.00  | 66.67  | 25.00 | 40.00  | 5.90   | 33.52   | 48.16 | 0.53  | 18.37 | 74.49 | 0.176 | 4.97    | 6.04         |
| 5      | 11-5  | 1.00     | 96.0  | 21.00 | 43.64  | 27.00 | 38.49  | 31.43  | 36.23   | 45.57 | 0.53  | 18.42 | 74.06 | 0.868 | 6.27    | 7.58         |
| 6      | 11-6  | 1.00     | 96.3  | 15.00 | 51.64  | 17.00 | 48.51  | 23.74  | 22.79   | 45.49 | 0.53  | 18.42 | 74.05 | 1.042 | 4.09    | 9.09         |
| 7      | 11-7  | 1.00     | 145.0 | 10.00 | 63.25  | 20.00 | 44.72  | 14.74  | 27.72   | 33.36 | 0.56  | 18.33 | 71.84 | 0.532 | 4.86    | 10.65        |
| 8      | 11-8  | 1.00     | 96.1  | 17.00 | 48.51  | 26.00 | 39.22  | 23.20  | 34.94   | 45.53 | 0.53  | 18.42 | 74.05 | 0.664 | 4.61    | 12.19        |
| 9      | 11-9  | 1.00     | 91.7  | 13.00 | 55.47  | 24.00 | 40.82  | 15.17  | 32.22   | 46.61 | 0.53  | 18.40 | 74.23 | 0.471 | 7.25    | 13.72        |
| 10     | 11-10 | 1.00     | 100.3 | 12.00 | 57.74  | 19.00 | 45.88  | 16.36  | 25.60   | 44.50 | 0.53  | 18.44 | 73.88 | 0.639 | 6.95    | 15.26        |

# Allied Technology Group

# Chain of Custody

Client Name: Ft. McClellan

P.O. #

Phone #: (256) 848-6725

Fax #: (256) 848-5517

Project Name/#: Ft. McClellan Radiological Survey for Release of Commodity Use Areas / # USA-99-100, Phase II

Sampler: *Charles Birchfield*

| Sample Identification | Date Collected | Time Collected | Analysis Required                   | Remarks            |
|-----------------------|----------------|----------------|-------------------------------------|--------------------|
| T837E1U               | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T837E2U               | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T837E3U               | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T837F1U               | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T837F2U               | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T837F3U               | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T810Q401              | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T810Q402              | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T811Q403              | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |
| T811Q404              | 8-8-00         | 1100           | <input checked="" type="checkbox"/> | As direct sunlight |

Turnaround Time Requested (please circle): Normal Rush

(Rush TAT is subject to MSAL approval and surcharge)

Report Results By: (Date) \_\_\_\_\_

Rush results requested by (please circle): Phone Fax

Report Results To: Mark McHugh  
 Address: 669 Emory Valley Rd. Oak Ridge, TN 37830  
 Telephone: (865) 425-5011

Type of Disposal: \_\_\_\_\_  
 Date/Time of Disposal: \_\_\_\_\_  
 Authorized for Disposal By: \_\_\_\_\_  
 Disposed of By: \_\_\_\_\_

669 Emory Valley Rd., Oak Ridge, Tennessee 37830 Tel. (865) 425-5000 Fax (865) 425-5057  
 ALLIED TECHNOLOGY GROUP, INC. FORM ATGF-059

ID: T837, T810

22 AUG 2000 19:44

USER: 9 COMMENT: E1U-E3U, F1U-F3U, QAD1-QAD4

PRESET TIME : 1.00

DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF

TWO PHASE : NO AQC : YES CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

ISOTOPE 2: 14C ZERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Due its Low: 4.535 High: 312.33

| SAM NO | POS   | TIME MIN | H#    | 3H    |        | 14C   |        | 3H DPM | 14C DPM | 3H    |       | 14C   |       | RATIO | LUMEX % | ELAPSED TIME |
|--------|-------|----------|-------|-------|--------|-------|--------|--------|---------|-------|-------|-------|-------|-------|---------|--------------|
|        |       |          |       | CPM   | ZERROR | CPM   | ZERROR |        |         | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |         |              |
| 1      | 11-1  | 1.00     | 102.0 | 22.00 | 42.64  | 13.00 | 55.47  | 42.67  | 17.31   | 44.08 | 0.53  | 18.44 | 73.81 | 2.465 | 9.15    | 1.46         |
| 2      | 11-2  | 1.00     | 89.3  | 14.00 | 53.45  | 22.00 | 42.64  | 18.18  | 29.47   | 47.20 | 0.53  | 18.39 | 74.33 | 0.617 | 8.34    | 2.98         |
| 3      | 11-3  | 1.00     | 93.8  | 34.00 | 34.30  | 23.00 | 41.70  | 61.51  | 30.58   | 46.12 | 0.53  | 18.41 | 74.15 | 2.011 | 20.38   | 4.53         |
| 4      | 11-4  | 1.00     | 97.8  | 16.00 | 50.00  | 22.00 | 42.64  | 23.38  | 29.57   | 45.12 | 0.53  | 18.43 | 73.98 | 0.791 | 4.10    | 6.04         |
| 5      | 11-5  | 1.00     | 83.5  | 22.00 | 42.64  | 15.00 | 51.64  | 37.75  | 19.85   | 48.62 | 0.53  | 18.36 | 74.56 | 1.902 | 5.03    | 7.58         |
| 6      | 11-6  | 1.00     | 94.3  | 25.00 | 40.00  | 20.00 | 44.72  | 43.69  | 26.67   | 45.98 | 0.53  | 18.41 | 74.13 | 1.638 | 3.73    | 9.11         |
| 7      | 11-7  | 1.00     | 73.2  | 17.00 | 48.51  | 21.00 | 43.64  | 23.32  | 27.84   | 51.07 | 0.53  | 18.29 | 74.97 | 0.837 | 3.47    | 10.65        |
| 8      | 11-8  | 1.00     | 98.3  | 20.00 | 44.72  | 20.00 | 44.72  | 33.47  | 26.80   | 44.99 | 0.53  | 18.43 | 73.96 | 1.249 | 4.14    | 12.17        |
| 9      | 11-9  | 1.00     | 73.8  | 28.00 | 37.80  | 22.00 | 42.64  | 44.55  | 29.04   | 50.93 | 0.53  | 18.30 | 74.95 | 1.534 | 3.99    | 13.70        |
| 10     | 11-10 | 1.00     | 84.6  | 16.00 | 50.00  | 18.00 | 47.14  | 23.99  | 23.99   | 48.34 | 0.53  | 18.36 | 74.52 | 1.000 | 6.48    | 15.29        |



ID: FT MCCLELLAN

22 AUG 2000 11:32

USER: 9 COMMENT: T812QA05 - T837QA10

PRESET TIME : 1.00

DATA CALC : DL DPM H# : YES SAMPLE REPEATS: 1 PRINTER : STD

COUNT BLANK : NO IC# : NO REPLICATES : 1 RS232 : OFF

TWG PHASE : NO AQC : YES CYCLE REPEATS : 1

SCINTILLATOR: LIQUID LUMEX: NO LOW SAMPLE REJ: 0

LOW LEVEL : NO HALF LIFE CORRECTION DATE: none

ISOTOPE 1: 3H %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

ISOTOPE 2: 14C %ERROR: 2.00 FACTOR: 1.000000 BKG. SUB: 0

BACKGROUND QUENCH CURVE: Off COLOR QUENCH CORRECTION: Off

Quench Limits Low: 4.535 High: 312.33

| SAM<br>N° | POS  | TIME<br>MIN | H#    | 3H    |        | 14C   |        | 3H<br>DPM | 14C<br>DPM | 3H    |       | 14C   |       | RATIO | LUMEX<br>% | ELAPSED<br>TIME |
|-----------|------|-------------|-------|-------|--------|-------|--------|-----------|------------|-------|-------|-------|-------|-------|------------|-----------------|
|           |      |             |       | CPM   | %ERROR | CPM   | %ERROR |           |            | EFF-1 | EFF-2 | EFF-1 | EFF-2 |       |            |                 |
| 1         | 11-1 | 1.00        | 77.4  | 20.00 | 44.72  | 21.00 | 43.64  | 29.75     | 27.86      | 50.07 | 0.53  | 18.32 | 74.81 | 1.068 | 10.12      | 1.46            |
| 2         | 11-2 | 1.00        | 92.2  | 22.00 | 42.64  | 18.00 | 47.14  | 37.82     | 23.99      | 46.50 | 0.53  | 18.40 | 74.21 | 1.577 | 11.45      | 2.99            |
| 3         | 11-3 | 1.00        | 90.3  | 30.00 | 36.51  | 29.00 | 37.14  | 48.72     | 38.69      | 46.97 | 0.53  | 18.39 | 74.29 | 1.259 | 7.18       | 4.54            |
| 4         | 11-4 | 1.00        | 85.4  | 45.00 | 29.81  | 19.00 | 45.88  | 83.94     | 24.91      | 48.16 | 0.53  | 18.37 | 74.49 | 3.369 | 23.89      | 6.08            |
| 5         | 11-5 | 1.00        | 124.5 | 8.00  | 70.71  | 16.00 | 50.00  | 10.29     | 21.89      | 38.47 | 0.54  | 18.46 | 72.83 | 0.470 | 7.29       | 7.61            |
| 6         | 11-6 | 1.00        | 105.3 | 16.00 | 50.00  | 18.00 | 47.14  | 26.64     | 24.24      | 43.27 | 0.53  | 18.45 | 73.67 | 1.099 | 6.23       | 9.15            |