RADIATION MONITORING REPORT FOR LICENSE SUB-1435 JEFFERSON PROVING GROUND

Summary of Results for April 2009 Sampling Event

FINAL

Submitted to:

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TABLE OF CONTENTS

| 1. | INTRODUCTION | i-1 | | | |
|----|---|-------------------|--|--|--|
| 2. | SAMPLING REQUIREMENTS AND APPROACH | 2-1 | | | |
| 3. | RESULTS | 3-1 | | | |
| | 3.1 GROUNDWATER 3 3.2 SURFACE WATER 3 | 3-1 3-1 | | | |
| | 3.3 SEDIMENT 3 3.4 SOIL 3 | 3-1 3-2 | | | |
| 4. | . HISTORICAL DATA ASSESSMENT AND TREND ANALYSIS4- | | | | |
| | 4.1 GROUNDWATER | 4-1 4-2 4-3 | | | |
| | 4.4 SOILS | 1-3 | | | |
| 5. | CONCLUSIONS AND RECOMMENDATIONS | 5-1 | | | |
| 6. | REFERENCES | | | | |

APPENDICES

| Appendix A. | Standard Operating Procedure |
|-------------|------------------------------|
| Appendix B. | Field Logbook |
| Appendix C. | Data Validation Summary |

Page

LIST OF FIGURES

| Figure 3-1. | Sampling Locations for the JPG ERM Program | |
|--------------|---|------|
| Figure 4-1. | Total Uranium in MW-DU-001 (1998-2009) | 4-5 |
| Figure 4-2. | Total Uranium in MW-DU-002 (1998-2009) | 4-6 |
| Figure 4-3. | Total Uranium in MW-DU-003 (1998-2009) | 4-7 |
| Figure 4-4. | Total Uranium in MW-DU-004 (1998-2009) | 4-8 |
| Figure 4-5. | Total Uranium in MW-DU-005 (1998-2009) | 4-9 |
| Figure 4-6. | Total Uranium in MW-DU-006 (1998-2009) | |
| Figure 4-7. | Total Uranium in MW-DU-007 (1998-2009) | 4-11 |
| Figure 4-8. | Total Uranium in MW-DU-008 (1998-2009) | 4-12 |
| Figure 4-9. | Total Uranium in MW-DU-009 (1998-2009) | |
| Figure 4-10. | Total Uranium in MW-DU-010 (1998-2009) | |
| Figure 4-11. | Total Uranium in MW-DU-011 (1998-2009) | |
| Figure 4-12. | Variable Control Chart for Total Uranium in MW-DU-001 (2004-2009) | |
| Figure 4-13. | Control Chart for All Monitoring Well Data (2004-2009) | 4-17 |
| Figure 4-14. | Total Uranium in SW-DU-001 (1998-2009) | |
| Figure 4-15. | Total Uranium in SW-DU-002 (1998-2009) | |
| Figure 4-16. | Total Uranium in SW-DU-003 (1998-2009) | |
| Figure 4-17. | Total Uranium in SW-DU-004 (1998-2009) | 4-21 |
| Figure 4-18. | Total Uranium in SW-DU-005 (1998-2009) | |
| Figure 4-19. | Total Uranium in SW-DU-006 (1998-2009) | |
| Figure 4-20. | Total Uranium in SW-DU-007 (1998-2009) | |
| Figure 4-21. | Total Uranium in SW-DU-008 (1998-2009) | |
| Figure 4-22. | Control Chart for All Surface Water Data (2004-2009) | |
| Figure 4-23. | Total Uranium in SD-DU-001 (1998-2009) | |
| Figure 4-24. | Total Uranium in SD-DU-002 (1998-2009) | |
| Figure 4-25. | Total Uranium in SD-DU-003 (1998-2009) | |
| Figure 4-26. | Total Uranium in SD-DU-004 (1998-2009) | |
| Figure 4-27. | Total Uranium in SD-DU-005 (1998-2009) | |
| Figure 4-28. | Total Uranium in SD-DU-006 (1998-2009) | |
| Figure 4-29. | Total Uranium in SD-DU-007 (1998-2009) | 4-33 |
| Figure 4-30. | Total Uranium in SD-DU-008 (1998-2009) | |
| Figure 4-31. | Control Chart for All Sediment Data (2004-2009) | |
| Figure 4-32. | Total Uranium in SS-DU-001 (1998-2009) | |
| Figure 4-33. | Total Uranium in SS-DU-002 (1998-2009) | 4-37 |
| Figure 4-34. | Total Uranium in SS-DU-003 (1998-2009) | 4-38 |
| Figure 4-35. | Total Uranium in SS-DU-004 (1998-2009) | |
| Figure 4-36. | Control Chart for All Surface Soil Data (2004-2009) | |

LIST OF TABLES

| Table 3-1. | Uranium in Groundwater | 3-4 |
|------------|---|-------|
| Table 3-2. | Groundwater Water Quality Parameters and Exposure Readings | .3-5 |
| Table 3-3. | Uranium in Surface Water | 3-6 |
| Table 3-4. | Surface Water Quality Parameters and Exposure Readings | 3-7 |
| Table 3-5. | Uranium in Sediment | .3'-7 |
| Table 3-6. | Uranium in Surface Soil | 3-9 |
| Table 4-1. | Action Levels and Corrective Actions for Total Uranium in Environmental Media | .4-1 |

August 2009

Page

Page

LIST OF ACRONYMS AND ABBREVIATIONS

| μg/L | Micrograms per Liter |
|--------|---|
| ASTM | American Society for Testing and Materials |
| CFR | Code of Federal Regulations |
| CHPPM | U.S. Army Center for Health Promotion and Preventive Medicine |
| DQO | Data Quality Objective |
| DU | Depleted Uranium |
| ERM | Environmental Radiation Monitoring |
| ERMP | Environmental Radiation Monitoring Program |
| I.D. | Identification |
| JPG | Jefferson Proving Ground |
| LCL | Lower Control Limit |
| mS/cm | MilliSiemens per Centimeter |
| NRC | Nuclear Regulatory Commission |
| pCi/g | PicoCuries per Gram |
| pCi/L | PicoCuries per Liter |
| QA | Quality Assurance |
| QAPP . | Quality Assurance Project Plan |
| QC | Quality Control |
| SAIC | Science Applications International Corporation |
| SOP | Standard Operating Procedure |
| UCL | Upper Control Limit |

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1. INTRODUCTION

Environmental monitoring activities are being conducted at Jefferson Proving Ground (JPG), Madison, Indiana, to ensure that depleted uranium (DU), present within the DU Impact Area as a result of the Army's past DU testing program, does not pose a threat to human health and the environment through inadvertent or unanticipated release or migration. The Environmental Radiation Monitoring Program (ERMP), described in the standard operating procedure (SOP) in Appendix A (CHPPM 2000), is designed to meet the requirements of applicable Federal and state regulations, including Nuclear Regulatory Commission (NRC) regulations and requirements under Radioactive Materials License SUB-1435 (NRC 1988).

The overall goals of JPG's ERMP are to provide:

- A historical and current perspective of DU levels in various media
- A timely indication of the magnitude and extent of any DU release or migration from past operations.

This report summarizes the methodology, results, and conclusions of the April 2009 sampling event, which is the first of two planned sampling events in 2009 for this biannual program. The sampling requirements and approach are presented in Section 2. The results of the multimedia sampling event are presented and discussed in Section 3. Historical data from the ERMP are discussed in Section 4. Conclusions and recommendations are summarized in Section 5. References cited are identified in Section 6. The appendices of this report include the SOP (Appendix A), field logbook (Appendix B), and data validation summary (Appendix C). All tables and figures are presented at the end of their respective sections.

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2. SAMPLING REQUIREMENTS AND APPROACH

The ERMP (U.S. Army 2000) specifies the U.S. Army Center for Health Promotion and Preventive Medicine's (CHPPM's) protocol for the collection and analysis of 11 groundwater, 8 surface water, 8 sediment, and 4 soil samples (with appropriate duplicates) in the DU Impact Area. The plan has been approved by the NRC and is described in an SOP, which is provided in Appendix A. Science Applications International Corporation (SAIC) executes the plan and reports the findings in an effort to fulfill the Army's responsibilities for monitoring under NRC Radioactive Material License SUB-1435.

Sampling Event Report – Final JPG, Madison, Indiana

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3. RESULTS

An SAIC field crew prepared for and conducted sampling at JPG in April 2009. Appendix B contains a copy of the field logbook, which documents environmental monitoring report field activities during the sampling effort.

No unusual or abnormal conditions (e.g., soil or water discoloration, odd odors, or elevated radiation levels) were observed during the sampling effort.

The sample locations for the groundwater, surface water, sediment, and soil samples are depicted in Figure 3-1. Sections 3.1 through 3.4 summarize the sampling results for each medium, respectively. The results of the data validation are presented in Appendix C. All data were determined to meet data quality objectives (DQOs) and criteria presented in the SOP (as provided in Appendix A). Environmental data with a negative value for the total uranium concentrations are conservatively carried forward as being zero (0).

3.1 GROUNDWATER

The concentrations of total dissolved uranium in groundwater at the 11 monitoring wells plus 1 duplicate sample are presented in Table 3-1. Water quality parameter measurements are presented in Table 3-2. (There was insufficient water at MW09; thus, water quality measurements were not obtained for this location.) Total uranium concentrations of the April 2009 groundwater samples ranged from 0.36 to 2.91 picocuries per liter (pCi/L) with an average concentration of 1.42 pCi/L.

In addition to the individual isotopic concentrations, Table 3-1 presents the U-238/U-234 ratios for each sample, which ranged from 0.27 ± 0.23 to 0.88 ± 0.43 . A U-238/U-234 ratio of 3 or less is representative of natural uranium, whereas higher ratios are potentially indicative of DU (U.S. Army 2002). For the purposes of this report, samples with U-238/U-234 ratios in excess of 3 are investigated further to validate if the sample is representative of DU or natural uranium. No sample exceeded this criterion.

3.2 SURFACE WATER

The concentrations of total dissolved uranium in surface water at eight sampling locations plus one duplicate sample are presented in Table 3-3. Water quality parameter measurements are presented in Table 3-4. Total uranium concentrations ranged from 0.19 to 0.35 pCi/L, with an average concentration of 0.25 pCi/L. The U-238/U-234 ratios ranged from 0.38 ± 0.42 to 1.25 ± 1.10 . As no result had a U-238/U-234 ratio exceeding 3, no additional investigations were required and it is concluded that no sample exhibited evidence of the presence of DU.

3.3 SEDIMENT

The concentrations of total uranium in sediment at eight sampling locations plus one duplicate sample are presented in Table 3-5. Sediment samples were collected at the same locations as surface water samples, as shown in Figure 3-1. Total uranium concentrations ranged from 0.38 to 1.91 picocuries per gram (pCi/g), with an average concentration of 1.16 pCi/g. The U-238/U-234 ratio for the samples ranged from 0.79 \pm 0.20 to 1.78 \pm 0.51.

As indicated by the relatively low total uranium results and the U-238/U-234 ratios, there is no evidence of the presence of DU in the sediment samples.

3.4 SOIL

The concentrations of total uranium in surface soil at four surface soil sample locations plus one duplicate sample are presented in Table 3-6. Total uranium concentrations ranged from 1.36 to 1.83 with an average concentration of 1.58 pCi/g. The U-238/U-234 ratios ranged from 0.86 ± 0.21 to 1.14 ± 0.28 .

As indicated by the relatively low total uranium results and the U-238/U-234 ratios, there is no evidence of the presence of DU in the surface soil samples.



Figure 3-1. Sampling Locations for the JPG ERM Program

| JPG Sample Designation ^a | Sample I.D. | Analyte | Result (pCi/L) |
|-------------------------------------|------------------------------|------------------------------|----------------|
| MW01 | MW-DU-001 | U-234 | 0.30 J |
| MW01 | MW-DU-001 | U-235 | 0.051J |
| MW01 | MW-DU-001 | U-238 | 0.20 J |
| | | Total Uranium | 0.55 |
| | 238/U-234 Ratio ^b | 0.67 | |
| MW02 | MW-DU-002 | U-234 | 1.36 |
| MW02 | MW-DU-002 | U-235 | 0.21 J |
| MW02 | MW-DU-002 | U-238 | 0.61 |
| | | Total Uranium | 2.18 |
| | U- | 238/U-234 Ratiob | 0.45 |
| MW03 | MW-DU-003 | U-234 | 0.65 J |
| MW03 | MW-DU-003 | U-235 | 0.041 U |
| MW03 | MW-DU-003 | U-238 | 0.34 |
| | | Total Uranium | 1.03 |
| | U- | 238/U-234 Ratio ^b | 0.52 |
| MW04 | MW-DU-004 | U-234 | 0.42 J |
| MW04 | MW-DU-004 | U-235 | 0.013 U |
| MW04 | MW-DU-004 | U-238 | 0.37 |
| | | Total Uranium | 0.80 |
| | U- | 238/U-234 Ratio ^b | 0.88 |
| MW05 | MW-DU-005 | U-234 | 0.29 J |
| MW05 | MW-DU-005 | U-235 | 0.012 U |
| MW05 | MW-DU-005 | U-238 | 0.20 J |
| | | Total Uranium | 0.50 |
| | U- | 238/U-234 Ratio ^b | 0.69 |
| MW06 | MW-DU-005 | U-234 | 1.21 |
| MW06 | MW-DU-005 | U-235 | 0.119 J |
| MW06 | MW-DU-005 | U-238 | 1.05 |
| | Total Uranium | 2.38 | |
| | U- | 238/U-234 Ratio ^b | 0.87 |
| MW07 | MW-DU-007 | U-234 | 1.42 |
| MW07 | MW-DU-007 | U-235 | 0.100 J |
| MW07 | MW-DU-007 | U-238 | 0.86 |
| | | Total Uranium | 2.38 |
| | U- | 238/U-234 Ratio | 0.61 |
| MW07D | MW-DU-007 | U-234 | 1.28 |
| MW07D | MW-DU-007 | U-235 | 0.079 J |
| MW07D | MW-DU-007 | <u> </u> | 0.78 |
| | | I otal Uranium | 2.14 |
| | <u>U-</u> | 238/U-234 Ratio ^b | 0.61 |
| MW08 | MW-DU-008 | U-234 | 0.24 J |
| MW08 | MW-DU-008 | 0-235 | 0.046 U |
| MW08 | MW-DU-008 | U-238 | 0.184 J |
| | | Total Uranium | 0.47 |
| | U | 238/U-234 Ratio ^b | 0.77 |

Table 3-1. Uranium in GroundwaterJefferson Proving Ground, Madison, Indiana

17420 June 1

| JPG Sample Designation ^a | Sample I.D. | Analyte | Result (pCi/L) |
|-------------------------------------|-------------|--------------------|----------------------|
| MW09 | MW-DU-009 | U-234 | 0.86 |
| MW09 | MW-DU-009 | U-235 | 0.089 J ₂ |
| MW09 | MW-DU-009 | U-238 | 0.40 |
| | | Total Uranium | 1.35 |
| • | , U | -238/U-234 Ratiob | 0.47 |
| MW010 | MW-DU-010 | U-234 | 1.99 |
| MW010 | MW-DU-010 | U-235 | 0.109 J |
| MW010 | MW-DU-010 | U-238 | 0.81 |
| | | Total Uranium | 2.91 |
| | . U | -238/U-234 Ratiob | 0.41 |
| MW011 | MW-DU-011 | U-234 | 0.27 J |
| MW011 | MW-DU-011 | U-235 | 0.021 U |
| MW011 | MW-DU-011 | U-238 | 0.072 J |
| | | Total Uranium | 0.36 |
| | ل. | I-238/U-234 Ratiob | 0.27 |

Table 3-1. Uranium in Groundwater Jefferson Proving Ground, Madison, Indiana (Continued)

^a Represents sample designation developed in previous sampling programs.

^b Unitless.

J – Indicates that the radionuclide was positively identified; the associated numerical value is the approximate concentration of the radionuclide in the sample.

U – Indicates that the data met all QA/QC requirements and the radionuclide was analyzed for but was not detected above the reported sample quantification limit.

Table 3-2. Groundwater Water Quality Parameters and Exposure Readings Jefferson Proving Ground, Madison, Indiana

| JPG Sample Designation ^a | Sample I.D. | рН | Temp (°C) | Conductivity (microSiemens/cm) | Dissolved Oxygen (mg/L) | Rad (µR/hr) |
|--|-------------|------|-----------|-----------------------------------|----------------------------|----------------|
| MW01 | MW-DU-001 | 6.58 | 12.5 | 61.3 | b | 6 |
| MW02 | MW-DU-002 | 5.92 | 10.3 | 76.1 | b | 5 |
| MW03 | MW-DU-003 | 6.42 | 10.4 | 73.8 | | 5 |
| MW04 | MW-DU-004 | 6.66 | 11.9 | 65.0 | p | 5.5 |
| MW05 | MW-DU-005 | 5.88 | 10.9 | 0.416 | b | 5 |
| MW06 | MW-DU-006 | 6.26 | 12.6 | 61.5 | p | 5 |
| MW07 | MW-DU-007 | 6.37 | 10.8 | 81.9 | b | 6 |
| MW08 | MW-DU-008 | 6.78 | 12.4 | 46.1 | b | 6 |
| MW09 ^c | MW-DU-009 | C | c | c | b,c | 5 |
| MW10 | MW-DU-0010 | 6.26 | 10.2 | 85.8 | b | 5 |
| MW11 | MW-DU-0011 | 6.64 | 10.0 | 35.3 | b | 6 |

^a Represents sample designation developed in previous sampling programs.

^b Dissolved oxygen not measured.

^c Insufficient water present to collect water quality parameters.

| JPG Sample Designation ^a | Sample I.D. | Analyte | Result (pCi/g) |
|--|-------------|-------------------------------|----------------|
| SWS01 | SW-DU-001 | U-234 | 0.106 J |
| SWS01 | SW-DU-001 | U-235 | 0.019 U |
| SWS01 | SW-DU-001 | U-238 | 0.071 J |
| · · · · · · · · · · · · · · · · | | Total Uranium | 0.20 |
| | U | -238/U-234 Ratiob | 0.67 |
| SWS02 | SW-DU-002 | U-234 | 0.142 J |
| SWS02 | SW-DU-002 | U-235 | 0.013 U |
| SWS02 | SW-DU-002 | U-238 | 0.054 J |
| | | Total Uranium | 0.21 |
| | U. | -238/U-234 Ratiob | 0.38 |
| SWS03 | SW-DU-002D | U-234 | 0.071 U |
| SWS03 | SW-DU-002D | U-235 | 0.029 U |
| SWS03 | SW-DU-002D | U-238 | 0.153 J |
| | | Total Uranium | 0.25 |
| | U | -238/U-234 Ratio ^b | ND |
| SWS04 | SW-DU-004 | U-234 | . 0.221 J |
| SWS04 | SW-DU-004 | U-235 | -0.012 U |
| SWS04 | SW-DU-004 | U-238 | 0.095 J |
| | | Total Uranium | 0.32 |
| | (| J-238/U-234 Ratiob | 0.43 |
| SWS04D | SW-DU-004D | U-234 | 0.133 J |
| SWS04D | SW-DU-004D | U-235 | 0.010 U |
| SWS04D | SW-DU-004D | U-238 | 0.050 J |
| | | Total Uranium | 0.19 |
| | U | -238/U-234 Ratiob | 0.38 |
| SWS05 | SW-DU-005 | U-234 | 0.187 J |
| SWS05 | SW-DU-005 | U-235 | -0.009 U |
| SWS05 | SW-DU-005 | U-238 | 0.174 J |
| | | Total Uranium | 0.36 |
| | UU | -238/U-234 Ratiob | 0.93 |
| SWS06 | SW-DU-006 | U-234 | 0.089 U |
| SWS06 | SW-DU-006 | U-235 | 0.025 U |
| SWS06 | SW-DU-006 | U-238 | 0.137 J |
| | | Total Uranium | 0.25 |
| | U | -238/U-234 Ratiob | · ND |
| SWS07 | SW-DU-007 | U-234 | ε 0.113 J |
| SWS07 | SW-DU-007 | U-235 | 0.041 J |
| SWS07 | SW-DU-007 | U-238 | 0.141 J |
| | | Total Uranium | 0.30 |

Table 3-3. Uranium in Surface Water Jefferson Proving Ground, Madison, Indiana

| JPG Sample Designation ^a | Sample I.D. | Analyte | Result (pCi/g) |
|--|-------------------|-------------------------------|----------------|
| | U | -238/U-234 Ratio ^b | 1.25 |
| SWS08 | SWS-DU-008 | U-234 | 0.093 J |
| SWS08 | SWS-DU-008 | U-235 | 0.037 J |
| SWS08 | SWS-DU-008 | U-238 | 0.093 J |
| · · | | Total Uranium | 0.22 |
| | -238/U-234 Ratiob | 1.00 | |

Table 3-3. Uranium in Surface Water Jefferson Proving Ground, Madison, Indiana (Continued)

Represents sample designation developed in previous sampling programs.
 Unitless.

J – Indicates that the radionuclide was positively identified; the associated numerical value is the approximate concentration of the radionuclide in the sample.

ND – Indicates that one or more isotopes were not detected; therefore, the calculation was not performed.

U- Indicates that the data met all QA/QC requirements and the radionuclide was analyzed for but was not detected above the reported sample quantitation limit.

Table 3-4. Surface Water Quality Parameters and Exposure Readings Jefferson Proving Ground, Madison, Indiana

| JPG Sample Designation* | Sample I.D. | pН | Temp (°C) | Conductivity (microSiemens/cm) | Dissolved Oxygen (mg/L) | Rad (µR/hr) |
|----------------------------|-------------|------|-----------|-----------------------------------|----------------------------|----------------|
| SWS01 | SW-DU-001 | 7.20 | 10.2 | 0.131% | 10.03 | 5 |
| SWS02 | SW-DU-002 | 6.86 | 10.0 | 0.147 | 9.72 | 5 |
| SWS03 | SW-DU-003 | 6.15 | 11.3 | 0.09 | 9.07 | 5 |
| SWS04 | SW-DU-004 | 6.57 | 8.9 | 0.153 | 9.23 | 6 |
| SWS05 | SW-DU-005 | 6.50 | 9.6 | 0.162 | 9.44 | 6 |
| SWS06 | SW-DU-006 | 5.68 | 11.2 | 0.081 | 9.93 | 5 |
| · SWS07 | SW-DU-007 | 6.90 | 11.0 | 0.048 | 9.38 | 5 |
| SWS08 | SW-DU-008 | 6.30 | 11.0 | 0.145 | 9.92 | 5 |

*Represents sample designation developed in previous sampling programs.

Table 3-5. Uranium in SedimentJefferson Proving Ground, Madison, Indiana

| JPG Sample Designation ^a | Sample I.D. | Analyte | Result (pCi/g) |
|--|-------------|-------------------|----------------|
| SES01 | SD-DU-001 | U-234 | 0.90 |
| SES01 | SD-DU-001 | U-235 | 0.081 J |
| SES01 | SD-DU-001 | U-238 | 0.93 |
| | | Total Uranium | 1.91 |
| | U | -238/U-234 Ratiob | 1.03 |
| SES02 | SD-DU-002 | . U-234 | 0.58 |
| SES02 | SD-DU-002 | U-235 | 0.054 J |
| SES02 | SD-DU-002 | U-238 | 0.66 |
| | | Total Uranium | 1.29 |

| JPG Sample Designation ^a | Sample I.D. | Analyte | Result (pCi/g) |
|--|-------------|--------------------------------|----------------|
| · · · | Ĺ | 1.14 | |
| SES03 | SD-DU-003 | U-234 | 0.71 |
| SES03 | SD-DU-003 | U-235 | 0.018 U |
| SES03 | SD-DU-003 | U-238 | 0.56 |
| Total Uranium | | Total Uranium | 1.29 |
| | . L | J-238/U-234 Ratio ^b | 0.79 |
| SES03D | SD-DU-003D | U-234 | 0.82 |
| SES03D | SD-DU-003D | U-235 | 0.024 U |
| SES03D | SD-DU-003D | U-238 | 0.81 |
| • | | Total Uranium | 1.65 |
| | <u>l</u> | J-238/U-234 Ratio ^b | 0.99 |
| SES04 | SD-DU-004 | U-234 | 0.206 |
| SES04 | SD-DU-004 | U-235 | 0.057 J |
| SES04 | SD-DU-004 | U-238 | 0.224 |
| | ······ | Total Uranium | 0.49 |
| | U | -238/U-234 Ratiob | 1.09 |
| SES05 | SD-DU-005 | U-234 | 0.141 |
| SES05 | SD-DU-005 | U-235 | 0.015 J |
| SES05 | SD-DU-005 | U-238 | 0.227 |
| | | Total Uranium | 0.38 |
| | . U | -238/U-234 Ratiob | 1.61 |
| SES06 | SD-DU-006 | U-234 | 0.363 |
| SES06 | SD-DU-006 | U-235 | 0.058 J |
| SES06 | SD-DU-006 | U-238 | 0.366 |
| | • | Total Uranium | 0.79 |
| | ι | J-238/U-234 Ratiob | 1.01 |
| SES07 | SD-DU-007 | U-234 | 0.72 |
| SES07 | SD-DU-007 | U-235 | 0.073 J |
| SES07 | SD-DU-007 | U-238 | 0.78 |
| | | Total Uranium | 1.57 |
| | l | J-238/U-234 Ratiob | 1.08 |
| SES08 | SD-DU-008 | U-234 | 0.383 |
| SES08 | SD-DU-008 | U-235 | 0.044 J |
| SES08 | SD-DU-008 | U-238 | 0.68 |
| Total Uranium | | | 1.11 |
| | l | J-238/U-234 Ratio ^b | 1.78 |

Table 3-5. Uranium in SedimentJefferson Proving Ground, Madison, Indiana (Continued)

^a Represents sample designation developed in previous sampling programs. ^b Unitless.

J – Indicates that the radionuclide was positively identified; the associated numerical value is the approximate concentration of the radionuclide in the sample. U – Indicates that the data met all QA/QC requirements and the radionuclide was

analyzed for but was not detected above the reported sample quantitation limit.

| JPG Sample Designation ^a | Sample I.D. | Analyte | Result (pCi/g) |
|--|-------------|-----------------------------|----------------|
| SOS01 | SS-DU-001 | U-234 | 0.63 |
| SOS01 | SS-DU-001 | U-235 | 0.019 U |
| SOS01 | SS-DU-001 | U-238 | 0.71 |
| Total U | | Total Uranium | 1.36 |
| U-238/U-234 Ratio | | | 1.13 |
| SOS02 | SS-DU-002 | U-234 | 0.91 |
| SOS02 | SS-DU-002 | U-235 | 0.074 J |
| SOS02 | SS-DU-002 | U-238 | 0.85 |
| | , | Total Uranium | 1.83 |
| | U-2 | 38/U-234 Ratio ^b | 0.93 |
| SOS03 | SS-DU-003 | U-234 | 0.73 |
| SOS03 | SS-DU-003 | U-235 | 0.034 J |
| SOS03 | SS-DU-003 | U-238 | 0.83 |
| Total Uranium | | | 1.59 |
| | U-2 | 38/U-234 Ratiob | 1.14 |
| SOS04 | SS-DU-004 | U-234 | 0.79 |
| SOS04 | SS-DU-004 | U-235 | 0.059 J |
| SOS04 | SS-DU-004 | U-238 | 0.68 |
| | | Total Uranium | 1.53 |
| U-238/U-234 Ratio ^b | | | 0.86 |
| SOS04D | SS-DU-004D | U-234 | 0.78 |
| SOS04D | SS-DU-004D | U-235 | 0.055 J |
| SOS04D | SS-DU-004D | U-238 | 0.77 - |
| Total Uranium | | | 1.61 |
| | U-2 | 238/U-234 Ratiob | 0.99 |

Table 3-6. Uranium in Surface SoilJefferson Proving Ground, Madison, Indiana

^a Represents sample designation developed in previous sampling programs.

^b Unitless.

J- Indicates that the radionuclide was positively identified; the associated numerical value is the approximate concentration of the radionuclide in the sample. U- Indicates that the data met all QA/QC requirements and the radionuclide was

analyzed for but was not detected above the reported sample quantification limit.

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4. HISTORICAL DATA ASSESSMENT AND TREND ANALYSIS

Historical data from the ERMP are reviewed and discussed in this section in the context of existing action levels and corrective actions for environmental media documented in the SOP for the Environmental Radiation Monitoring (ERM). The SOP action levels and associated corrective actions are provided in Table 4-1.

| Medium | Total Uranium Action Level | Corrective Action |
|----------------------------------|-------------------------------|--|
| Groundwater and Surface Water | ≥ 150 pCi/L* | Resample. If activity verified, notify NRC and assess results. The findings and recommended corrective actions will be documented for the Army's Radiation Control Committee. The Committee will provide recommendations to the Commander based on its evaluation. |
| | Less than 150 pCi/L | No action. |
| Soil and Sediment: | | |
| Perimeter and Background Samples | ≥ 35 pCi/g | Collect five additional samples in a 1-meter grid. If average activity exceeds 35 pCi/g, decontaminate to 35 pCi/g. |
| | Less than 35 pCi/g | No corrective action. |

| Table 4-1. Action Levels and Corrective Actions for Total Uranium in Environme | ntal Media |
|--|------------|
| Jefferson Proving Ground, Madison, Indiana | |

* Effluent concentration limit for uranium is 300 pCi/L in 10 CFR 20, Appendix B, Table 2, Column 2. Source: U.S. Army 1999 and CHPPM 2000 (see Appendix A, pages A-6 and A-7).

An assessment of historical trends for ERMP data was first provided in the April 2006 Radiation Monitoring Report (SAIC 2006). That assessment focused on available sampling data for groundwater, surface water, sediment, and soil since 1998. Quality assurance/quality control (QA/QC) records for data collected prior to 1998 were not available to support the trend analyses. In addition, there were changes to analytical methods that were implemented beginning in December 2004.¹ Therefore, while historical data are reported since 1998, trend analyses included in this ERM report address the time period from December 2004 to the present. Surface water and groundwater results for the April 2004 sampling event also were not trended, given that the results were provided in units of micrograms per liter (μ g/L) rather than pCi/L.

As noted above, the April 2006 Radiation Monitoring Report (SAIC 2006) provided detailed information about the trending methods employed and why certain data were or were not included in the initial trend analysis. To avoid confusion, that information is not repeated in this report. This report section re-examines the ERMP data for historical trends following the addition of the ERMP data collected during the October 2008 sampling event. Stated numbers of samples and summary statistics are based on data generated since December 2004 (when laboratory analytical methods were revised and standardized).

4.1 GROUNDWATER

For 106 discrete samples available from 11 monitoring wells (MW01 to MW11) during the period from 2004 through April 2009, the average total uranium activity-concentration is 1.41 pCi/L, the standard deviation is 1.12 pCi/L, and the maximum detected activity-concentration is 5.27 pCi/L. The activity-concentrations at each well are well below the 150 pCi/L action level for groundwater.

¹ Total uranium is now analyzed by alpha spectroscopy using American Society for Testing and Materials (ASTM) Method D3972-90M rather than the fluorometry and gamma spectroscopy methods applied previously.

Data for each monitoring well are summarized in run charts, as shown in Figures 4-1 through 4-11. Total uranium results are displayed along with each measurement's associated error bars. The error bars are expressed at 1.96 standard deviations and represent a 95 percent confidence interval. Where trend lines are provided, the associated coefficient of correlation also is provided (the R^2 value listed on each figure). An R^2 value that approaches 1.0 suggests a strong relationship between the sample results and the sampling dates. The figures for all 11 individual monitoring wells indicate no significant trends. In addition, no monitoring wells exhibited trend lines with R^2 values greater than 0.5 (i.e., somewhat significant).

In addition to the aforementioned run charts (Figures 4-1 through 4-11), individual variable control charts were created in April 2006 for each monitoring well, with the upper control limit (UCL) and the lower control limit (LCL) defined at 3 standard deviations above or below the mean. The control charts were created to determine if any single sample result warranted further examination. These control charts were re-examined in this report. All total uranium results at each sampling location for the April 2009 sampling effort were within 3 standard deviations of the mean concentration. An example individual control chart is provided in Figure 4-12.

The 11 monitoring wells also were examined in aggregate to determine if some wells or particular sampling events were distinctive. A simple individual control chart was created using the pooled data for all monitoring wells and all data collected after December 2004 (Figure 4-13).

Figure 4-13 indicates five points that lie above the UCL applicable to the full data set. Each of the five points is for MW-DU-006. Clearly, this well has exhibited (and continues to exhibit) total uranium results exceeding that of the other wells. The U-238/U-234 ratio for each of these samples suggests that DU is not a likely cause. This well will continue to be monitored closely.

4.2 SURFACE WATER

For 87 discrete samples available from 8 surface water sampling locations (SW01 to SW08) during the period from 2004 through April 2009, the average total uranium activity-concentration is 0.59 pCi/L, the standard deviation is 1.01 pCi/L, and the maximum detected activity-concentration is 6.91 pCi/L. The activity-concentrations at each sample location are well below the 150 pCi/L action level for surface water.

Data for each surface water sampling location are summarized in run charts, as shown in Figures 4-14 through 4-21. Total uranium results are displayed along with each measurement's associated error bars. The error bars are expressed at 1.96 standard deviations and represent a 95 percent confidence interval. Where trend lines are provided, the associated coefficient of correlation also is provided (the R^2 value listed on each figure). As noted in Section 4.1, an R^2 value that approaches 1:0 suggests a strong relationship between the sample results and the sampling dates. The figures for all eight individual surface water sampling locations indicate no significant trends. In addition, none of the samples exhibited trend lines with R^2 values greater than 0.5 (i.e., somewhat significant).

The eight surface water sampling locations also were examined in aggregate to determine if some locations or particular sampling events were distinctive. A simple individual control chart was created using the pooled data for all surface water sampling locations and all data collected after December 2004 (Figure 4-22).

Figure 4-22 indicates that only the data point from SW-DU-005 exceeded the UCL or was below the LCL.

All of the surface water results for the April 2009 sampling event were below the mean. These data will continue to be monitored to determine if there is a seasonal trend. Surface water sample SW-DU-005 exhibited a total uranium concentration of total uranium of 6.91 pCi/L for the October 2008 sampling

effort. This result is about a factor of three higher than the 2.33 pCi/L UCL for the total population of surface water samples and is also slightly above the UCL of 6.78 pCi/L applicable to this sample location. Results for this sample were also above the UCL in October 2005 (SAIC 2006) and the October 2007 result for SW-DU-005 was a factor of about 2 higher than any previous result for this location. The result for April 2009 sampling (0.35 pCi/L) fell below the UCL. In addition, the U-238:U-234 isotopic ratio is 7.02 for this location for the October 2008 sampling, but the ratio for the April 2009 sampling is 0.93. Although the total uranium concentration of this sample location (0.36 pCi/L) was significantly lower during this sampling event, the results, being historically higher than would be expected, will continue to be closely monitored.

4.3 SEDIMENT

For 98 discrete samples available from 8 sediment sampling locations (SD01 to SD08) during the period from 2004 through April 2009, the average total uranium activity-concentration is 1.00 pCi/g, the standard deviation is 0.54 pCi/g, and the maximum detected activity-concentration is 2.80 pCi/g. The activity-concentrations at each location are well below the 35 pCi/g action level.

Data for each sediment sampling location are summarized in run charts, as shown in Figures 4-23 through 4-30. Total uranium results are displayed along with each measurement's associated error bars. The error bars are expressed at 1.96 standard deviations and represent a 95 percent confidence interval. Where trend lines are provided, the associated coefficient of correlation also is provided (the R^2 value listed on each figure). As noted in Section 4.1, an R^2 value that approaches 1.0 suggests a strong relationship between the sample results and the sampling dates. The figures for all eight individual sediment sampling locations indicate no significant trends.

The eight sediment sampling locations also were examined in aggregate to determine if some locations or particular sampling events were distinctive. None of the samples exhibited trend lines with R^2 values greater than 0.5 (i.e., somewhat significant).

A simple individual control chart was created using the pooled data for all sediment sampling locations and all data collected after December 2004 (Figure 4-31). Figure 4-31 indicates no new points above the UCL or below the LCL. The April 2009 sediment sampling results vary around the mean, as expected.

4.4 SOILS

For 56 discrete samples available from 4 surface soil sampling locations (SS01 to SS04) during the period from 2004 through April 2009, the average total uranium activity-concentration is 1.60 pCi/g, the standard deviation is 0.29 pCi/g, and the maximum detected activity-concentration is 2.25 pCi/g. The activity-concentrations at each location are well below the action level of 35 pCi/g. The October 2008 surface soil sampling results vary around the mean, as expected.

Data for each surface soil sampling location are summarized in run charts, as shown in Figures 4-32 through 4-35. Total uranium results are displayed along with each measurement's associated error bars. The error bars are expressed at 1.96 standard deviations and represent a 95 percent confidence interval. Where trend lines are provided, the associated coefficient of correlation also is provided (the R^2 value listed on each figure). As noted in Section 4.1, an R^2 value that approaches 1.0 suggests a strong relationship between the sample results and the sampling dates. The figures for all four individual surface soil sampling locations indicate no significant trends. Surface soil sampling location SS-DU-002 exhibited trend lines with an R^2 value of 0.53. R^2 values greater than 0.5 indicate that the correlation is somewhat significant. The slope of the trend line for SS-DU-002 suggests an increase in the total uranium concentration at this location.

The four surface soil sampling locations also were examined in aggregate to determine if some locations or particular sampling events were distinctive. A simple individual control chart was created using the pooled data for all surface soil sampling locations and all data collected after December 2004 (Figure 4-36). As data are added to the control chart, the UCL, mean, and LCL are automatically recalculated. Figure 4-36 reflects that one point, the result for SS-DU-002 (i.e., 0.36 pCi/g), fell below the LCL for a previous sampling event (October 2008). A single low result has no immediate significance to the project. In addition, no sampling points for the April 2009 sampling event exceeded the UCL or were below the LCL.



Figure 4-1. Total Uranium in MW-DU-001 (1998-2009)



Figure 4-2. Total Uranium in MW-DU-002 (1998-2009)

Sampling Event Report – Final JPG, Madison, Indiana

4-6



-36

2.5 ♦ TotalU MDC . Trend Line (Linear) 2 1.5 Total U (pCi/L) $R^2 = 0.1607$ 1 0.5 0 - 60-Inc May-05 -Oct-06 Feb-08 Nov-10 Jul-98 Sep-02 Mar-97 Dec-99 Apr-01 Jan-04 Sampling Date

Figure 4-3. Total Uranium in MW-DU-003 (1998-2009)

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August 2009



Sampling Event Report – Final JPG, Madison, Indiana





Figure 4-5. Total Uranium in MW-DU-005 (1998-2009)



Sampling Event Report – Final JPG, Madison, Indiana

4-10



3.5 TotalU MDC 3 2.5 $\mathbf{R}^2 = 0.2298$ Total U (pCi/L) 2 1.5 1 0.5 0 Feb-08 -- 60-Inc Oct-06 -Nov-10 Sep-02 May-05 Mar-97 - 96-Inc Dec-99 Apr-01 Jan-04 Sampling Date

Figure 4-7. Total Uranium in MW-DU-007 (1998-2009)

August 2009



Sampling Event Report – Final JPG, Madison, Indiana



2.5 TotalU MDC -Trend Line (Linear) 2 $R^2 = 0.2632$ 1.5 Total U (pCi/L) 1 0.5 0 May-05 -Od-06 -Nov-10 - 96-INC Dec-99 Sep-02 Feb-08 60-Inc Mar-97 Apr-01 Jan-04 Sampling Date

Figure 4-9. Total Uranium in MW-DU-009 (1998-2009)



Figure 4-10. Total Uranium in MW-DU-010 (1998-2009)

Sampling Event Report – Final JPG, Madison, Indiana

4-14

Sampling Event Report – Final JPG, Madison, Indiana





Figure 4-11. Total Uranium in MW-DU-011 (1998-2009)



Sampling Event Report – Final JPG, Madison, Indiana




4-17



Figure 4-14. Total Uranium in SW-DU-001 (1998-2009)

4-18





Figure 4-15. Total Uranium in SW-DU-002 (1998-2009)

4-19









Figure 4-17. Total Uranium in SW-DU-004 (1998-2009)



Figure 4-18. Total Uranium in SW-DU-005 (1998-2009)

NOTE: A large value of 29 pCi/g in October 1999 was removed because it was causing a compression of the Y axis scale.

Sampling Event Report – Final JPG, Madison, Indiana



NOTE: No sample collected in October 2007 as the creek was dry.

Figure 4-19. Total Uranium in SW-DU-006 (1998-2009)





4-24





Figure 4-21. Total Uranium in SW-DU-008 (1998-2009)

4-25





Figure 4-23. Total Uranium in SD-DU-001 (1998-2009)

Sampling Event Report – Final JPG, Madison, Indiana

4-27



Figure 4-24. Total Uranium in SD-DU-002 (1998-2009)

Sampling Event Report – Final JPG, Madison, Indiana

4-28



Figure 4-25. Total Uranium in SD-DU-003 (1998-2009)

4-29



Figure 4-26. Total Uranium in SD-DU-004 (1998-2009)

4-30

3.5 TotalU MDC 3 2.5 Total U (pCi/g) 2 1.5 1 .28 0.5 0 Nov-10 -May-05 Feb-08 60-Inc Jul-98 Sep-02 Oct-06 Mar-97 Dec-99 Apr-01 Jan-04 Sampling Date

Figure 4-27. Total Uranium in SD-DU-005 (1998-2009)

4-31



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Figure 4-29. Total Uranium in SD-DU-007 (1998-2009)

Sampling Event Report – Final JPG, Madison, Indiana

4-33















Figure 4-33. Total Uranium in SS-DU-002 (1998-2009)

4-37





4-38



3 TotalU MDC Trend Line (Linear) 2.5 $R^2 = 0.003$ 2 Total U (pCi/g) 1.5 1 0.5 0 Nov-10 -May-05 -Oct-06 Feb-08 Jul-09 Dec-99 Sep-02 Jul-98 Jan-04 Mar-97 Apr-01 Sampling Date

Figure 4-35. Total Uranium in SS-DU-004 (1998-2009)

4-39



5. CONCLUSIONS AND RECOMMENDATIONS

The April 2009 sampling event was conducted in accordance with the SOP (CHPPM 2000), and all data were determined to comply with the requirements of the Quality Assurance Project Plan (QAPP) (see Appendix A). The environmental media sample results are generally a small fraction of the action levels (see Table 4-1) established in the SOP. For the purposes of this report, samples with U-238/U-234 ratios in excess of 3 are investigated further to validate whether a sample result is representative of DU or natural uranium. No ratios exceeding 3 were encountered for any sample collected as part of the April 2009 sampling event. Trend analysis completed did not provide evidence of any notable increasing or decreasing trends in the environmental media sampled. Furthermore, no action levels defined in the Army's license were exceeded. Future environmental monitoring will continue to be completed in accordance with the SOP.

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6. **REFERENCES**

- CHPPM (U.S. Army Center for Health Promotion and Preventative Medicine). 2000. Standard Operating Procedure, Depleted Uranium Sampling Program, Environmental Radiation Monitoring Program. SOP No. OHP 40-2. 10 March.
- CFR (Code of Federal Regulations). 2008. 10 CFR 20. Energy. Nuclear Regulatory Commission. Standards for Protection Against Radiation.
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- SAIC (Science Applications International Corporation). 2006. Radiation Monitoring Report for License SUB-1435 Jefferson Proving Ground, Summary of Results for 10-13 April 2006 Sampling Event. Final. October.
- U.S. Army. 1999. U.S. Army Test and Evaluation Command, Environmental Radiation Monitoring (ERM) Plan for Jefferson Proving Ground. Memorandum to Mr. Larry W. Camper, Chief, Decommissioning Branch, Division of Waste Management, Office of Nuclear Material Safety and Safeguards, United States Nuclear Regulatory Commission, Washington, DC 20555-001 from Dal M. Nett, Chief, Safety Division, Directorate for Mission Support.
- U.S. Army. 2000. Standing Operating Procedure, Depleted Uranium Sampling Program, Environmental Radiation Monitoring Program, Jefferson Proving Ground, Madison, Indiana. MCHB-TS-OH. SOP No. OHP 40-2. Effective date, 10 March 2000.
- U.S. Army. 2002. Decommissioning Plan for License SUB-1435. Jefferson Proving Ground, Madison, Indiana. Prepared for the U.S. Army SBCCOM by SAIC. June.

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APPENDIX A STANDARD OPERATING PROCEDURE

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Effective Date <u>10 Mar 00</u> Date Removed from Service

STANDING OPERATING PROCEDURE

Depleted Uranium Sampling Program Environmental Radiation Monitoring Program Jefferson Proving Ground, Madison, IN

This SOP supersedes, in its entirety, the SOP of the same name dated April 1998.

1. **Purpose**. This Standing Operating Procedure (SOP) prescribes policies, responsibilities, and procedures for administration and execution of the Health Physics Program (HPP), USACHPPM support of the Soldier and Biological Chemical Command (SBCCOM) biannual Environmental Radiation Monitoring (ERM) Program conducted at the Jefferson Proving Ground, Madison, Indiana.

2. Authority.

a. US Nuclear Regulatory Commission License No. SUB-1435.

b. Program Services Meeting, 14 September 1999, between SBCCOM and HPP, USACHPPM.

3. **Scope**. This SOP applies to Health Physics Program personnel performing the collection of environmental samples in support of the ERM.

4. **Definitions, Abbreviations.** A list of terms and abbreviations used in this SOP can be found in Annex A.

5. Forms, Labels, and Worksheets. A sample of all forms, sample labels, and sample collection worksheets can be found in Annex B.

6. Point(s) of Contact for Program Coordination:

 a. Soldier and Biological Chemical Command Ms. Joyce Kuykendall, SBCCOM Health Physicist Comm: 410-436-7118 DSN : 584-7118 email: joyce.kuykendall@sbccom.apgea.army.mil

SOP No. OHP 40-2

Effective Date 10 Mar 00 Date Removed from Service

US Army Center for Health Promotion and Preventive b. Medicine

Health Physics Program (Pgm 26) 410-436-3502 Comm: DSN : 584-3502 fax : 410-436-8261/8263

Radiologic, Classic and Clinical Chemistry Division (RCCCD) Comm: 410-436-3983/8235 584-8235 DSN:

Jefferson Proving Ground с.

Mr. Ken Knouf, Site Manager Mr. Phil Mann Ms. Yvette Hayes Comm: 812-273-2551/2522/6075

7. Survey Coordination.

Pre-Survey Coordination: 60 days prior to scheduled sample a. date.

1) Initial Coordination: - made through the SBCCOM Health Physicist. Close coordination with the site management team at JPG will be required to ensure support will be onsite at the time of " sampling.

USACHPPM HPP Program Assistant, (410) 436-1303, (if call 2) from the Edgewood Arsenal: 5-1303) will be contacted to initiate travel orders. Due to the nature of the sampling program, a fourwheel drive vehicle is required to perform this project. The project and associated report number will be 26-MA-8260-R#-YY. The R# will be a "1" for the October and "2" for the April survey, and the YY will be the current fiscal year.

Prepare CHPPM Form 330-R-E (Request for Laboratory 3) Services. (See Annex B) This form can be found on the USACHPPM Web Site or through intranet FormFlow program. Current DLS Test Codes being used are as follows:

> Evaluations for Uranium in Soils for the soil and sediment samples, DLS Test Code: 803; STD Method: G-002.

SOP No. OHP 40-2

Effective Date Date Removed from Service

10 Mar 00

Evaluations for Uranium in Water for the ground and surface water samples, DLS Test Code: 586; STD Method: U-002.

Sample containers for all medium except soils, are Note: provided by SBCCOM and will be onsite however sample labels should be requested from the lab.

Ensure that sample bags, labels and coolers are shipped to the following address:

US Army Jefferson Proving Ground 1661 West J.P.G. Niblo Road (Bldg. 125) Madison, IN 47250 (812) 273-2551

Request for instrumentation to support the sampling 4) program should be made no later than 30 days prior to the scheduled departure date.

> Radiation detection instrumentation and soil sampling tools will be coordinated through the HPP Instrumentation Coordinator, ext. 8228. Electronic message will be used for coordination.

> Water Quality Instrumentation (pH meter, temperature, and conductivity) will be coordinated through the Surface Water and Waste Water Program (Pgm 32) at extension 3310/4211.

Final coordination for project should be completed no 5) later than 14 days prior to departure date.

Contact the site management personnel at JPG and schedule dates for purging of wells prior to arrival. Purging should be accomplished no later than the Friday preceding and no earlier than 14 days prior to the scheduled start date of the sampling visit.

b. Field instrument quality control. Upon receipt of field instruments from the HPP Instrument Coordinator and the Surface Water and Waste Water Program, appropriate instrument quality control checks will be conducted to ensure proper operation prior to departure.

Radiation detection instrumentation will be checked for 1) response against a radiation check source. This check source should also be shipped to the survey site for instrument verification on

SOP No. OHP 40-2

Date Removed from Service

Effective Date <u>10 Mar 00</u>

site. The radiation check source used need not be a calibrated source as instrument response is the parameter being evaluated.

2) Water quality instruments should also be verified using guidance provided by water program personnel. At a minimum, verify the accuracy of the pH meter using the certified pH solution packets.

8. Sample Collection. Four separate sample matrixes will be collected in support of the ERM. Methodologies for sampling can be found in US Army Environmental Hygiene Agency (the predecessor to USACHPPM) Technical Guide 155, Environmental Sampling Guide, February 1993.

a. Ground Water Samples. A total of 11 monitoring wells have been established to be used for the Environmental Monitoring Program. Wells are indicated on the ground water sample map (figure 1, Anne C) using an alphanumeric code containing the letters MW and a two digit sample number (01-11).

1) Sample will be collected using a new hand bailer for each sample. Care will be taken when lowering the bailer into the well to prevent unnecessary aeration or contamination of the sample.

2) A total quantity to be collected will be 1 US gallon.

3) A portion of the first bailer full of water will be placed into a clean beaker, or other suitable container, and an evaluation of radiation level, temperature, pH and conductivity will be conducted and recorded.

4) Sample information will be recorded on the Ground Water Sample Collection Worksheet. (Annex B)

5) Samples will not be filtered or persevered in the field.

b. Soil Samples. A total of 4 soil samples will be collected, one from each corner of the trapezoidal impact area. Sample locations are indicated on the soil sample map (figure 2, Annex C).

1) Sample will be collected using a new or properly cleaned scoop, trowel, or other suitable tool. Sample will be placed in a self sealing (Ziploc®) bag.

2) A sample quantity of approximately 1000 grams will be collected.

A-4

SOP No.

OHP 40-2

Effective Date Date Removed from Service

10 Mar 00

Radiation dose rate measurements will be taken at 1 meter 3) above the sample location and recorded on the Soil Sample Collection Worksheet (Annex B).

Surface Water Samples. A total of 8 sample locations have с. been identified for the collection of water sample from the two creeks that run through the DU impact area (figure 3, Annex C).

Sample will be collected using the grab method. Sample 1) container will be positioned pointing upstream and below the surface of the water.

> A sample quantity of 1 US gallon will be collected. · 2)

Radiation dose rate measurements will be taken at 1 meter 3) above the sample location and recorded on the Surface Water Sample Worksheet (Annex B).

Water sample will not be filtered or preserved in the 4) field.

d. Sediment Sample. A total of 8 sample locations have been identified for the collection of sediment samples from the two creeks that run through the DU impact area. Sediment samples will be collected at the sites selected for surface water collection (figure 3, Annex C).

Sample will be collected using a new or properly cleaned 1) scoop, trowel, or other suitable tool. Sample will be placed in a glass sample jar.

Sediment sample will be collected only after the water 2) sample has been collected.

While a sediment sample is usually considered a solid 3) sample matrix, a certain amount of water is expected in the sample. The sample should not be drained of water that is collected as part of the sample.

4) Radiation dose rate measurements will be taken at 1 meter above the sample location and recorded on the Sediment Sample Worksheet (Annex B).

SOP No. OHP 40-2

Effective Date <u>10 Mar 00</u> Date Removed from Service

9. Sample Management. Since sample collected are in support of NRC License commitments, chain-of-custody procedures will be followed.

a. Samples will be secured from unauthorized access during the period of sampling.

b. Prior to shipment of samples to USACHPPM, a properly completed CHPPM Form 235-R-E, Chain of Custody Record (Annex B), will be placed in each shipping container. Survey personnel will maintain a copy of the Chain of Custody Record for verification of sample transport.

c. Water samples must reach RCCCD no later than 4 days from the time of sampling. To ensure this time frame is met and that the laboratory has time to filter and preserve the sample if necessary, water samples should be collected on the first day of the sampling trip and shipped the following day. It is not necessary to ship the water, sediments, and soils together.

10. Sample Analysis. Sample analysis of all environmental samples will be performed through the USACHPPM RCCCD.

a. Samples will be analyzed in accordance with RCCCD established protocols and procedures. All environmental samples will be coordinated with the SBCCOM RPO for disposal instructions.

1) Water samples will be analyzed fluorometrically for dissolved total uranium.

2) Soil and sediment samples will be analyzed using gamma spectroscopy, keying on the isotopic peaks of the Thorium-234. The thorium is the daughter of U-238 and is considered to be in equilibrium therefore the activity would be equal.

b. The QC for laboratory instruments will be performed by RCCCD.

c. Reports of analysis will be forwarded to the USACHPPM project officer responsible for requesting the sampling. Electronic as well as hard copy reports will be requested.

11. Action Levels. Every effort will be made to maintain radiation exposures and releases of radioactive and non-radioactive toxic metals to unrestricted areas as low as is reasonable achievable (ALARA).

a. The following criteria for the restricted area will be used to limit DU exposure. (Limits were established in the NRC Approved ERM)
SOP No.

OHP 40-2

Effective Date Date Removed from Service 10 Mar 00

SOIL:

- Perimeter and background samples:

- \leq 35 pCi/g no corrective action.
- > 35 pCi/g collect 5 additional samples in a
 1 meter square grid. If average > 35 pCi/g is
 confirmed, recommendation to decontaminate soil
 to ≤ 35 pCi/g will be made to the SBCCOM RPO.

- Sample locations along the lines of fire:

< 100 pCi/g - no corrective action

- 100-300 pCi/g collect 5 additional samples in a
 1 meter square grid. If average > 100 pCi/g is
 confirmed, investigate to determine reason for
 the high level.
- > 300 pCi/g_f collect 5 additional samples in a
 1 meter square grid. If average > 300 pCi/g is
 confirmed, investigate to determine reason for
 the high level and immediately notify the
 SBCCOM RPO to initiate notification to the NRC.

WATER:

- Uranium limit established in 10 CFR 2, Annex B is 3.0 x 10⁻¹ pCi/ml
- $< 1.5 \times 10^{-1}$ pCi/ml no corrective action.
 - > 1.5 x 10⁻¹ pCi/ml resample; if results above 1.5 x 10⁻¹ pCi/ml is confirmed, investigate to determine reason for the high level and immediately notify the SBCCOM RPO to initiate notification to the NRC.`

Effective Date <u>10 Mar 00</u> Date Removed from Service

b. Basis for Action. If any of the action levels are exceeded, an evaluation of cause will be performed by the SBCCOM RPO. The RPO will provide a report of findings to the RCC. Based on their determination, recommendations to the commander on corrective action will be made.

> GARY J. MATCEK MAJ, MS Program Manager, Health Physics Program

Effective Date <u>10 Mar 00</u> Date Removed from Service

ANNEX A

DEFINITIONS AND ABBREVIATION

1. **Definitions**:

a. Action Level: The numerical value that will cause the decision maker to choose one of the alternative actions. The action level may be a regulatory standard or may be a level set to ensure that corrective action is initiated before regulatory standards are met.

b. Area: A general term referring to any portion of a site, up to and including the entire site.

c. **Background Sample**: A sample collected from an area similar to the one being studied, but in an area thought to be free of contaminant of concern.

d. **Calibration**: Comparison of a measurement standard, instrument, or item with a standard or instrument of higher accuracy to detect and quantify inaccuracies and to report or eliminate those inaccuracies by adjustments.

e. **Chain-of-Custody**: Documentation of the possession and handling of a sample from the time it is collected to the final disposition.

f. **Detection Limit**: The lowest concentration at which given analytical procedures can identify.

e. **Duplicate Samples:** Samples collected simultaneously from the same source, under identical conditions, into separate containers.

g. **Ground Water Sample:** A sample of water taken from an established monitoring well.

h. **Preservation**: Techniques which retard physical and/or chemical changes in a sample after it has been collected.

Effective Date <u>10 Mar 00</u> Date Removed from Service

i. **Quality Assurance:** A monitoring program which ensures the production of quality data and identifies and quantifies all sources of error associated with each step of the sampling and analytical effort.

j. **Sample:** A part or selection from a medium located in a survey area that represents the quality or quantity of a given parameter or nature of the whole area.

k. Sediment: A sample of the mineral and/or organic matter deposited by surface waters.

1. Soil Sample: A sample of the soil taken from the first 15 centimeters (6 inches) of surface soil.

m. **Split Sample:** A sample, which has been portioned into two or more containers from a single sample container.

n. **Surface Water**: Water found above the surface of the soil, particularly water contained in creeks and streams.

2. Abbreviations:

| a. | DU | Depleted Uranium |
|----|--------|--|
| b. | ERM | Environmental Radiation Monitoring Program |
| с. | , , | gram |
| d. | HPP | Health Physics Program |
| e. | JPG | Jefferson Proving Ground |
| f. | ml | milliliter . |
| g. | NRC | Nuclear Regulatory Commission |
| h. | pCi | pico-Curie |

A-10

Effective Date <u>10 Mar 00</u> Date Removed from Service

| i. | QC | Quality Control |
|----|----------|---|
| j. | RCCCD | Radiologic, Classic and Clinical Chemistry Division |
| k. | RPO | Radiation Protection Officer |
| l. | SBCCOM | Soldier and Biological, Chemical Command |
| m. | SOP | Standing Operating Procedure |
| n. | USACHPPM | U.S. Army Center for Health Promotion and Preventive Medicine |

A-11

Effective Date <u>10 Mar 00</u> Date Removed from Service

ANNEX B

FORMS, LABELS AND WORKSHEETS

2

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Effective Date <u>10 Mar 00</u> Date Removed from Service

Request for Laboratory Services

| Directorate of Laboratory Sciences | Eng Di S. Line Orth |
|---|---|
| FOUEST FOR LABORATORY SERVICES | |
| LEASE PRINT OR TYPE ALL BEQUESTED INEORMATION | Date Beceived |
| | |
| DATE OF REQUEST: 08/03/2000 | |
| PROJECT #: (CHPPM priv) 26 MA 8260 XO# | |
| FUND SOURCE: P84 DERA OTHER Supplemental (Specify) | |
| DIVISION/PROGRAM: Health Physics Program | |
| INSTALLATION: Jefferson Proving Ground | ÷ |
| STATE WHERE SAMPLES TO BE COLLECTED: Indiana | ······································ |
| NAME OF PROJECT OFFICER(s): Mr. David Collins | |
| TELEPHONE: (410) 436-3502 FAX# | (410) 436-8261 |
| E-MAIL: david.collins@apg.amedd.army.mil | |
| NAME OF SAMPLE COLLECTOR: Mr David Collins | |
| PROJECT DESCRIPTION/OBJECTIVE (Screen, Monitoring, Regulatory or Heal | th Concern, Etc.): |
| Sampling required as part of the Environmental Radiation Monitoring Plan | |
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| 0. SAMPLE OR SITE HISTORY (High Toxicity, Etc): | |
| 0. SAMPLE OR SITE HISTORY (High Toxicity, Etc): DU Firing Range | |
| 0. SAMPLE OR SITE HISTORY (High Toxicity, Etc): | |
| O. SAMPLE OR SITE HISTORY (High Toxicity, Etc): DU Firing Range II. PROJECT COORDINATOR/DLS TECHNICAL CONSULTANT - Was project oc | pordinated with DLS? X YES |
| O. SAMPLE OR SITE HISTORY (High Toxicity, Etc): DU Fiding Range 1. PROJECT COORDINATOR/DLS TECHNICAL CONSULTANT - Was project co Name of Person in DLS: Mr. Gary Wright ext. 8235 | pordinated with DLS? X YES |
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| | n Made with DLS? X YES n Made with DLS are Subject to Cost Surcharges.) S |
| | oordinated with DLS? X YES D n Made with DLS are Subject to Cost Surcharges.) S d if Submitted by Hard Copy) |

Effective Date <u>10 Mar 00</u> Date Removed from Service

| | | <u>PART</u> | 4: PROJECT C | OORDINATIO | N INFORMATION | u | | | |
|--|---------------------------------------|---|---------------------------------------|----------------------|-----------------------|--|--|--|--|
| Itiker: Per Amagement Ideal & Mede with SML for Samples That YML arine Quarks of Runne Dury Hour which are MF 0730-1700! Special Commonts: Samples will arrive from the field without preservation or fitteation. SPECIAL HANDLING REQUIREMENTS: CHAIN OF-CUSTODY (COC) SAFETY CONSIDERATION/HAZARDOUS MATERIALS (Specify): ANALYSES WITH SHORT-HOLDING TIMES (List Specific Analyses): Fitter water randoms and test for dissolved U 238, No preservative add in the field. DTHER (Specify): SAMPLE COLLECTION KIT: DATE REQUIRED: 07/04/2000 CHECK PREFERENCE: 1. TO BE FICKED UP AT DLS BY PROJECT OFFICER 2. SMIP TO: Iffer water randoms and test for dissolved U 238. No preservative add in the field. DTHER (Specify): SAMPLE COLLECTION KIT: DATE REQUIRED: 07/04/2000 CHECK PREFERENCE: 1. TO BE FICKED UP AT DLS BY PROJECT OFFICER 2. SMIP TO: Iffer water randoms and test for dissolved U 238. The preservative add (Btg) 1251 Iffer water randoms and test for dissolved U 238. The preservative add (Btg) 1251 Iffer water randoms and test for dissolved U 238. The preservative add in the field. DTHER (Specify): SAMPLE COLLECTION KIT: DATE REQUIRED: 07/04/2000 CHECK PREFERENCE: 1. TO BE FICKED UP AT DLS BY PROJECT OFFICER 2. SMIP TO: Iffer water randoms and test for dissolved U 238. The test and test for soil annytes: needs to be anipped to site U.S. Anny Helferson Proving Ground Iffer water randoms and test for soil annytes: needs to be anipped to site U.S. Anny Helferson Proving Ground Iffer water randoms and test for soil annytes: needs to be anipped to site U.S. Anny Helferson Proving Ground Iffer water randoms and test for soil annytes: needs to be anipped to site U.S. Anny Helferson Proving Ground Iffer water randoms and test for soil annytes: needs to be anipped to site U.S. Anny Helferson Proving Ground Iffer water randoms and test for soil annytes: needs to be anipped to site U.S. Anny Helferson Proving Ground Iffer water randoms and test for anity random random random random random random random ranity random ranity random random ranit | DATE SA | MPLES TO ARRIVE AT DLS | 12/04/2000 | | | · · · | | | |
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| | Special (| Comments: Samples will arrive | from the field witho | ut preservation | or filtration. | | | | |
| X CHAIN-OF-CUSTOPY (COC) SAFETY CONSIDERATION/HAZARDOUS MATERIALS (Specify): X ANALYSES WITH SHORT-HOLDING TIMES (List Specify): X ANALYSES WITH SHORT-HOLDING TIMES (List Specify): X Enter water samckes and test for dissolved U238, No preservative add in the field. OTHER (Specify): | SPECIAL | HANDLING REQUIREMENTS: | | | | | | | |
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| L. J. Shiri VU. Jump Logrands and long to your admights in but admights in bot admight a | H | 1. TO BE PICKED UP AT DLS | BY PROJECT OFF | and have for ho | samples need to be | shipned to site | | | |
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| 586 Uranium in Water U-002 Water 12 Ground Water (1 gal Cubitaine) Image: State of the sta | 803 | Uranium in Soil | G-002 | Soil | 9 | Sediment | | | |
| Image: section of the section of th | 586 | Uranium in Water | U-002 | Water | 12 | Ground Water (1 gat Cubitainer | | | |
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Figure B-1b

Effective Date <u>10 Mar 00</u> Date Removed from Service

Sample Labels

Below is an example of a label to placed on each sample container.

| _ | · · · · · · · · · · · · · · · · · · · |
|---|---------------------------------------|
| ſ | PROJECT #: |
| | INSTALLATION: |
| | POC: |
| | SAMPLE #: |
| | DATE COLLECTED: |
| | TIME COLLECTED: |
| | SAMPLE PRESERVED: |
| | ANALYSIS REQUIRED: |

Figure B-2

SOP No. O

Effective Date Date Removed from Service

OHP 40-2

JEFFERSON PROVING GROUND

DU SAMPLING PROGRAM PROJECT NUMBER: 26-MA-R_-8260-

| Sample | Sample | Exposure | Sample Locations | | Comme | onts . |
|----------|---|----------|---|----|--------------|-------------------------|
| ID | Date | (µR/hr) | | На | Temp (°C) | Conductivity (uMHOS) |
| MW01 | | | Well @ D-Road and Wonju Road (perimeter DU impact area) | 1 | | |
| MW02 | | | Well between C-Road & Wonju Road (perimeter DU impact area) | | | · · · · · · · |
| MW03 | | | Well between A-Road & gate on Wonju Road (perimeter DU impact area) | | | |
| MW04 | | | Well on South Perimeter Rd. (Along south border of JPG) | | | |
| MW05 | in the second | | Well @ D-Road & Morgan Road (across Bridge No. 13) perimeter DU impact area | | · · · · | |
| MW06 | | | Well @ C-Road & Morgan Road (perimeter DU impact area) | - | - | |

Effective Date

Date Removed from Service

JEFFERSON PROVING GROUND

DU SAMPLING PROGRAM

PROJECT NUMBER: 26-MA-R_-8260-_

| - | | | GROUND WATER SAMPLES | | | | |
|--------|--------|---------|--|----|--------------|-------------------------|--|
| | · | | · · · · · · · · · · · · · · · · · · · | | | | |
| Sample | Sample | Reading | Sample Locations | | Comments | | |
| 10 | Date | (µR/hr) | | рН | Temp (°C) | Conductivity (µMHOS) | |
| MW07 | | | Well @ Oakdale School House on Morgan Road (perimeter DU impact area) | | | | |
| MW08 | | | Well @ Southwest Corner of JPG (Along south border of JPG) | | | - | |
| MW09 | | | Well @ D-Road and Bridge No. 22 (inside DU impact area) | | | | |
| MW10 | | | Well on Center Recovery Road (inside DU impact area) | | | · · | |
| MW11 | | | Well on D-Road between Morgan and C Recovery Road (inside impact area) | | - | | |
| MW12 | | | Duplicate or Split Sample | | | | |

A-17

MCHB-TS-OHP

SOP No.

OHP 40-2

Effective Date Date Removed from Service

JEFFERSON PROVING GROUND

DU SAMPLING PROGRAM PROJECT NUMBER: 26-MA-R -8260-

| × | SOIL SAMPLES | | | | | |
|------------------|----------------|--------------------------------|---|----------------|--|--|
| Sample ID | Sample Date | Exposure Reading (µR/hr) | Sample Locations | JPG ID Code | | |
| SOS1 | | | Vicinity at intersection of C-Road and Wonju Road) | (S44). | | |
| SOS ² | | | Vicinity at intersection of E-Road and Morgan Road | (S48) | | |
| SOS3 | | | 0.5 miles east of intersection at C-Road & East Recovery Road | (S43) | | |
| SOS4 | | | Corner of Morgan Road and C-Road | (S47) | | |
| SOS5 | | , | Duplicate or Split of | | | |
| SOS6 | | · | Well on south perimeter road along south border of JPG | B-1 | | |
| SOS7 | · | | West Perimeter Road at Fork Creek | B-3 | | |
| SOS8 | | | South Perimeter Road of JPG | B-5 | | |
| SQS9 | | | Well on SW Corner of JPG | B-6 | | |

NOTE: Per letter from the NRC dated 7 Sep 99, soil sample locations S6 and S8 that were previously sampled will no longer require sampling. No other changes to the ERM Plan have been approved.

A-18

Effective Date Date Removed from Service

JEFFERSON PROVING GROUND

DU SAMPLING PROGRAM PROJECT NUMBER: 26-MA-R_-8260-___

| | | SURFACE | WATER SAMPLES | |
|--------------|----------------|--------------------------------|--|----------------|
| Sample ID | Sample Date | Exposure Reading (µR/hr) | Sample Locations | JPG ID Code |
| SWS1 | | | West Perimeter Road Middle Fork Creek (exits JPG property) | SWBS (M1) |
| SWS2 | | | Big Creek (exits JPG property) | SWBN (M2) |
| SWS3 | | | Wonju Road Middle Fork Creek (enters DU impact area) | SWSE (M3) |
| SWS4 | | | 'Big Creek (enters DU impact area) | SWNE (M4) |
| SWS5 | | | Bridge No. 22 Big Creek | SWM (M5) |
| SWS6 | | | Line of Fire Middle Fork Creek | SWS (M6) |
| SWS7 | | | Bridge No. 12 @ Morgan Road Middle Fork Creek | SWSW (M7) |
| SWS8 | | | Bridge No. 13 @ Morgan Road Big Creek | SWNW (M8) |
| SWS9 | | | Duplicate or Split of SWS_ | SWNE (M4) |

(

Effective.Date

Date Removed from Service

JEFFERSON PROVING GROUND

DU SAMPLING PROGRAM PROJECT NUMBER: 26-MA-R_-8260-___

| • | SEDIMENT SAMPLES | | | | | |
|--------------|------------------|--------------------------------|---|----------------|--|--|
| Sample ID | Sample Date | Exposure Reading (µR/hr) | Sample Locations | JPG ID Code | | |
| SES1 | | А | West Perimeter Road ,Middle Fork Creek (exits JPG property) | (M1) | | |
| SES2 | | | Big Creek (exits JPG property) | (M2) | | |
| SES3 | | | Wonju Road Middle Fork Creek (enters DU ímpact area) | (M3) | | |
| SES4 | | | Big Creek (enters DU impact area) | (M4) | | |
| SES5 | | | Bridge No. 22 Big Creek | (M5) | | |
| SES6 | | | Line of Fire Middle Fork Creek | (M6) | | |
| SES7 | | | Bridge No. 12 @ Morgan Road Middle Fork Creek | (M7) | | |
| SES8 | | | Bridge No. 13 @ Morgan Road Big Creek | (M8) | | |
| SES9 | | | Duplicate or Split of SES_ | (M4) | | |

SOP No. OHP 40-2

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Effective Date Date' Removed from Service

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ANNEX C ·

SAMPLE LOCATION MAPS

OHP 40-2



Jefferson Proving Ground: DU Sampling GROUNDWATER MONITORING WELLS



A-22

Effective Date Date Removed from Service



Jefferson Proving Ground: DU Sampling SOIL SAMPLES

Figure 2: Soil Samples (Sept. 1997)

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OHP 40-2

Effective Date _____ Date Removed from Service

Jefferson Proving Ground: DU Sampling SURFACEWATER & SEDIMENT SAMPLES



APPENDIX B FIELD LOGBOOK

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Der alter Jefferson having Grand (14/12/09) 14 Property Chang p1-p833-74-4220-310, ERM Surphy 142' Jucation Jefforson Proving Grand 10/27/48 ERN Sampling - MW-DJ-Q11, MH-DLQ18 MW-DV-PUL Mobilization 1700 Simon Fong (SARD) left the Dulles Armich at MW-11 to bail sande of 1135 Int'l Airputt for (incinnati Int'l grandwicher due to low water level. Airpurt. (ollect sample MW-DU-ON (SASLINE) for 1200 Simon arrived at Cincinnati Airport. 1845 Total / Isolopie Uranna. Gotting the restal vehicle ont bugs Left Cincingto Aroput for Madrien, Arrived at MW-110 to bost grandwate 13000 1915 sample due to los water level. (ollect sando MW- DU-DIU (SAZLIVE) ZN 330 Arnied at Matison, IN motel. Uleding 2045 for Total/Isotopic Uranin. Th. Muth Logan (Stac). field manage, Arrived ut MW-6 to bail groundwale 1540 called Simon and to 12 him to Sample due to low worker level. meet at matel lodgy the hext day (allect sample MW-DU-006 (SAIL WE) 1550 at \$70\$. for Total / Isotopic Uranova. SF 14/27/08 SF- 4/12/09 2 10/27/08

| 144 Location Jefforn Porty Cound Date 4/14/189 Project Church (4-0833-04-4220-3/4, ERM | Jefferson Porry Grand 4/14/14/14/14/14/14/14/14/14/14/14/14/14 |
|---|---|
| ERM Sampling, Calbahan of Equipment | ERM Samply, Calloration of Equipment, Will During |
| \$645 Strong Forg (SAZe) arrived at motel lobby. Met will Matt Logan (SAZe), Todd Eaby (SAZE) Project Manyer for field achiettes, | PH 4.31 3.97 4-000 PH 4.31 0.1 0.1 0.10 |
| 0705 Left the molel for Jefferion Proving Good April office Rithm DS | Conductively (1010) \$1.444 \$1.451 \$1.449 OTSS Matt Logan . is conducting the health |
| ØTTS Arrived at IPG Briting 125. Unbashy Home Met with Alan Miller (SAZE) | & sately plan training with DU itsues wet weather. Sizes, trips, and |
| GIS personal. Checking on bottles for Sanding. Alan Miller is opening Coulors for Smon. | \$810 Tody Alan and two SAIL UKO personnel |
| 107418 Show is calibrating Horina U-22 | left the field office to cleck out Big (cepter Simo Matt and Eric are wating |
| # KLIGE) La Harribur Eanonal & | to pack items for sampling. |
| Supply. Auto caliboration solution is Lot # | 0845 Todd and crew care back to freid |
| 6685 (Explos 11/12/09) from Herrisburg | on |
| Equipment and supply. | 4900 It is abered warne is about |
| he Humber # 550g | is cool or inny. Is from a |
| PH 5.55 3.97 4.000 | \$950 Simon, Todd, and Jimbfruder (SAZO) left A. field office for MW-2 to |
| Conducting (5%) 0.369 0.451 0.1149 | townload troll. |
| | troll is 9.40 feet BAVC. Told Jombard |
| 1-13 4/14/09 | 1-5 4/14/09 |

| 146 Lécate | Jefferson Proving Grand 4/14/109 |
|---------------|--|
| Protect | 01-0833- 04-420 - 318, ERM |
| Todi | Downland, ERM Well Sampling (MW-DU-1025) |
| 1015 | Leave MW-2 for MW-11 |
| 1041 | Arrived at MW-11. The initial verte |
| , | level at mut-11 (with toll in well) is |
| | 6.55 feet BRIC. Todd is downloading |
| | the troll boll is pulled and a new |
| 1052 | leave Antil Ac mu a |
| 1105.00 | Arrived at murg The costil water level |
| · · · · | at MW-9 Link tool is well is 35.75 |
| | feet BRVC. Todd is downlinding the troll |
| | Troll is pelled and a new compression |
| | cap is replaced. |
| 1108 | Lowe MW-9 for MW-5. |
| 1135 | Arrived at MW-5. The water level at |
| · | MW-5 is 19.18 feel BPVK. The water |
| | quality formers at mu => are: |
| | PT = 5.88 |
| | Thath = 7 vs NT11 |
| | Tomography = 10.9°C |
| 145 | (ollect Sample MM-DU-005 (at MW-5) for |
| | Total / Isotope Uraison (2, 11 plushic - |
| | in filtered & inpreserved) using a dispussible |
| | builter. Sample field ID is SAICILE |
| . . | - J~ J ~ 114109 |

 De Sendadurens Di Petern me Haaf al-weather wrong broadds and antern to the socontrate standardness of the contrational and the send to model to the experimental state of the potential and the presence of the sender the sender the sender to the source the sender the sender to the source the sender the s

147

Common Field Data Error Codes

Error Codes Are Used to Explain Common Mistakes and Are Written Above for Close to the Mistake Commonly Used Error Crozes Incluse PE Recording Error

- CE Calcuration Error
- ТБ Тларковраюв Ещес
- SR Spelena Berty
- Cull Changed for Blanky
- DC Cliginal Sample Description
- Changed After Further, Evalutation
- WO Write Over .
- Ni Not Rotaties and Dates at Time of Entry
- CB_Not Recorded at the Time of mital Observation

Note: Error Corte Should Be Circled, Dated and settated When Recorded

Hazard Classifications

| Class 1 Exp | pluSees . | |
|-------------|--|---------------------------------------|
| Class 2 Ga | e i | |
| Class 3 Fia | ministre Lagod | |
| Class 4 Fia | mmacce Solids (Potential spontaneous combust nammable gases what in conte | ion iorenission (n criwith water), |
| Class 5 Ox | idizing Sobstances and Organic Peroxides | · . |
| Class 6 Tor | xic (poisonous) and chectious substances | N |
| Class 7 Rá | dicactive malerial | |
| Class 8 Col | rrosives | - |
| Class 9 Mis | icelianeque dangerous goods | |
| Contain | er type abbreviations (for sampling | guidelines): |
| | BR Boston Round | |
| | ABR Aniber Boston Round | |
| | A.J. Amiliar Jug | |
| | CWM - Clear Wide Mouls | |

- AWM Amber Wide Mouth
- Pory Posyethylene Bothes
- BOD. Bottle

4/14/09 Jefferson Proving Grand Dreve 4/14/109 Jefferson Proving Grand \$1-0833-04-4220-310, ERM \$1-\$833-\$44-422\$ -31\$, ERM ERM Well Sanding (New Colo Mu-DU-00) FF 4/14/00 SF 4/14/00 SF 4/14/00 ERM well Sampling (MVN-DU-2003) 1247 Lewe MW-7 for MW-3 leave MW-5 for MW-6 1148 Arrived of MW-3. The water level at 1256 Arrived of MW-6. The worker level at 1202 MW-3 is 8.92 Feel BRUC. Simon Mu-b is 21.21 feet BPX. The water quality prometers at MW-b are . is unsure that ken knowf bailed this well after comparing dute from PH = 6.26 previous sampling achieves. Tool decides (underhichy = 61.5 S/cm to go back to field office ad some Robidily = 5.1 NTV if ken is around. Temperature = 12.6 °C Leave MW-3 for field office. collect sample MW-DV-006 (at MW-6) 300 1210 Arrived back at field office. Todd is for Total / Isotopic Uranium (2, 11 plastic-1307 going to inquire with ken knowt unfilled & unpresoured) using a disposable on which wells he projed. bailer. Sande field ID is SAIL IIE. Leave field office and going back to MW-3 322 Leave MW-6 for MW-7. 1217 as the knowly achaly proged if this Arrived of MW-7. The water level at 1225 MW-7 is 9.86 feel Blue. The worker moning. 1330 Arrived back of MN-3. The water quality parameters of MULT are: level at MW-3 is 8.60 feet BPVC. pH= 6.37 The water quality parameters at MW-3 are: (endruhily = 81.9 5/cm pH = 642 Trhibly = 17.4 NTV Candidating = 73.8 3/cm Temperature = 10.8 °C When sample MW-DU-1007 (at MW-T) (SAULIE) Turbibly 2 9.3 NTU 232 Temperature = 18.4°C for Total / Isotopic Uranum (2, 12 plastic un filtered & unpie source) using a disposable baster. Also which depirate sample (SAICIIDE). 1-T 4/14/09 1- or intuina

| 5 Locality | Jefferson Proving Ground Dave 4/14/09 01-0833-04-4220-30 ERM | udoatao) Project Cáre | Jeffersen Proveny Grand 4/14/109 101-4833-104-4224-315, ERM |
|---------------|--|--------------------------|--|
| ERM | , well Sanding (mu-DU-0003, MW-DU-001) | ERM Sa | nphy (MW-04-004, MW-04-048) |
| 1345 | Collect sample MW-DU-003 (at MW-3) (SAIL IIE) for Total/ Isotopic Uranium (2, 12 plastic - un filteral & un preserval) Using a disposable barler. | 1455 | Collect Sample MM-DU-0004 (at MW-4) (SAILITE) for Total /Zsotopic Uransn (2, IL plastic - untitled & unpresenced) Using a disposable bailer. |
| 353 402 | Leave MW-3 for MW-1. Africed at MW-1. The Matter level at MW-1 is 28.63 feet BPVC. The Water available parameters at MW-1 are: | 15ø3 1515 | Leave MW-4 for MW-8. Arrived of MW-8. The node-level at MW-8 is 23.25 feet BAVC. The inte- guality accompters of MW-8 are: |
| | PH = 6.58 Conductorially = 61.3 S/cm Turbrially = 9.3 NTU | | PH = 6.78 Conductivity = 46.1 5/cm Turbitidity = 1.5 NTS |
| 1414 | Tenperatue = 12.5 °C Collect sample MM-DJ-0001 (at MW-D) (SAIL IIE) for Total / Isotopic Viraium (2, 12 Plastic - Unfilted & Unpresensed) Union Sciencifie bailes | 1238 | Temporture = 12.4 °C Collect sample MW-DW-0008 (at MW-8) (SALLIE) for Tutal / Isotopic Vianon (2, 12 plastic - United & unpresource) Using a disperble balle |
| 1424 1442 | Leave MW-1 for MW-4. Arrived at MW-4. The voiter level at MW-4 is 3.64 feet BPVC. The water quality parameters at MW-4 are: pH = 6.66 (enductority = 65.0 \$/on | 546 1602 1612 | Leave Mun-8 for field office. Arrived at field office. Todd decites to cleak Big (rock's condition, Therefore, Todd. Simon, and Jen leave the field office for Big (reak around MW-5. |
| | Knowning = 27.9 NIV Knowning = 11.9 C | 1028 | Obsovering the creek flow. |

2. 1

4/14/09 Jetterson Proving Grand 101-0833-104-8527-600, bain / 655 Sven Stream Gauge Check Left the stream gauge at bridge 1640 \$100 noth of mui-5 and going back to field office. Met up with Month's team enrate. Arrived at field office. Unlocating equipment Ø745 1710 Simon leaves the held office. Meat ØBIØ 1726 Next try of field office at 107100. Ø82ø 4/14/99 13\$5 1338 1400 4114/09 Π

Jefferson Proving Ground 4/15/109 101-18833-104-8527-6000, bat-/Loss Survey Gain/Loss Study 2020 Simon Fong (SAIL) arrived at fielt nother office at Jefferson Proving Ground-Ramyths Lowling equipment for Gam/Loss Shudy ~ 145 Evergore leave field office for Big Creek. 1810 Arrived at bridge that connects MW-5

and JPG-DU-\$21/JPG-DU-\$20 mals. Toold is downloading Stream gauge total Everyone leave the britze area for the intersection of west recovery road and D road. Everyone walk down the bank toward Big creek to start Gain Loss Shoty. Simon is teaned with Alan Miller (SASK) and Jhn Struter (SALC). Sman is boing the steen the Matt Lugar (SAIC) dupped by to inform Stron, Alan, and Jim that it is fine for Jrn to go. Jim and Simon leave the Big Creek area near mw-11 for the field office. Jim and Simon arrived at field office. Jrm is getting ready for the aliport, Imon and Jim leave field office for Louisville Atrport. 0-1 Hicka

| 1) Location Tefferso Aboving Grand Date 4/15/109 Project Chart 121-10833- 104-4220-3 100, ETRM ERM Well Sampling - Equipment Calibratis | ERN Well Simpling (MUN-DU 2002, MM-DU-1010) |
|--|---|
| 1517 Advised at Louisville Airport. Simon tropped | 1654 (continue) pH = 5,92 |
| Jim Struder off. Simon is going back | Conductive = 76.1 5/cm |
| to Jefforon Proving Ground. | Turbrithy = 5.9 NTU |
| 1637 Simon arrived back at JPG field office. | Temperature = 16.3 °C |
| Simon informed Todd Eclay (SAJL) that | 1705 Collect sample MW-DU-BOSLIGH MUG-2) |
| Shue he is not needed to firsh the | (SAEL 11E) For Total / Isotopic Uranium |
| Gave Log study. Simon will boil the | (2, L plastic - unfitted 2 unpresorve) |
| Remaining monitoring wells for samplies. | Using a dispossible locater. |
| 1642 Simon is Calibrating the Horbon U-22 | 1728 Leave MW-2. Trol is reinseled |
| Water quality drecker (# 15509) from Haveiberg | back down well MW-2 but not |
| Fouriement & Sundy. Calibration is done. | (estaded, come to MW-18. |
| Using Auto Calibration Solution from Harrisburg | 180,0 Attinied at MWI-10. The water level |
| Equipment & Supply (Lot # 6685, Expires | at MMI-10 is 3.82 feet BPVC. The |
| 11(12/189). | water quality parameters at MWI-10 are: |
| 54 4/15/19 Harriber # 155099 | pH= 6.26 |
| pt <u>pro-caleralus Person</u> <u>Art</u> <u>caleratures standard</u> | Conductivity = 85.8 %cm |
| pt 3.95 3.99 4.0000 | Turbility = 6.9 NTU |
| Trising (New) 1.3 0.46 0.40 | Tenperature = 10.2.°C |
| (orderheitz (Sen) 0.427 0.451 0.449 | 18047 Collect Sample MW-DU-10106 (at Mul-100) |
| 1646 Stron left the field effice for MU-2. | (SALL NE) for Total/Isolopic Ulenium |
| 1654 Limon avrived at MW-2. The water level | (2, IL plastic - Untillored & unpreserved) |
| at MW-2 is 9.85 feet BPNC. The | Using a fisposable baster. |
| water quality percendor at MW-2 aro: | 1818 Lenne MW-10 for MW-9. |
| 1=+7 4115 10A | 1 13 4/15/29 |

....

Jefforon Proving Grand 4/15/059 Jefferson Proving 61202 (1990 4/15/109 Ø1-0833-04-4220-310, ERM R-0833-04-4220-314 - ERM ERM well Sanding (MW-ON-Ø11) ERM Well Sumpling Arrived at MW-9. The water level at 1821 2010 Everyore lenve the field office. Made next day at field office at \$7000. MW-9 is 37.26 feet BNC. The bottom of the well is 38.58 feet BAUC. Simon decides to not sample this well due to a lack of water. Lowe MW-9 for MW-11. 1829 Arrived at MM-11. The water level at 1832 MW-11 is 7.92 feet BRIC. The wode quality prameters at MW-11 are: 4/15/09 PH= 6.64 (ordubily = 35.3 5/m Turbilly = 2.0 NTU Tenperature = 10.0°C (ollect Sample MW-DU-011 (at MW-11) 1838 (SAILIE) for Total / Isotopic Uranium (2, 11 plastic - un preserved & unfiltered) Using a disposable bailer. 1853 Love MWHI and going back to field office Arrived back at field office. Matt 1715 Logen (SAZE) said if 11 be another hour before his team gets back. Matt's team arrived back to feld 1Das office. Unloading. Wislog 4/15/109

| Jeffers, Proving Grand4)16/89A-0833-04-42286-313, ERMIffers, Proving Grand4)16/89ERM 2011Schuck Vick/2010Septer313, ERMC1085Siman Forg (SARC) annied at field office. Tho buy, Worke is dry hit cal Hydrinson.1225Cale Mail Sought, Canado MailC1105Siman Forg (SARC) annied at field office. Tho buy, Worke is dry hit cal Hydrinson.1225Cale Mail Sought, Canado MailC1105Siman Forg (SARC) conducted the soft, Tho buy, Worke is dry hit cal Hydrinson.1225Cale Mail Sought, Cale MailC1105Siman Forg (SARC) conducted the soft, Tho buy, Worke as dry bole to get about the sought of the field office. Uhbading ERM express feelds1242Simon baled the well Mail office. The sought.C1105Siman Forg (SARC) ERM Softie to conducted the soft, ERM Softie to conducted the soft, Softie to conducted the soft, Softie to conducted the soft, ERM Softie to conducted the soft, ERM Softie to conducted the soft, Softie to conducted the soft, ERM Softie to conducted the soft, Softie to conducted the soft, ERM Softie to cond | | 2 |
|---|---|---|
| (DT05 Simon Forg (SARC) atrived at field office. Checking on samples (olleded the last two bue, Werke is dry hit cal. Hybrinkos. (DT20 Matt Logan (SARC) conducted the softy media. P8605 Eventore left the field office for cuting the ERM Surface wicks and Sediret Sampling. 11205 Eventore atrived back at field office. Uhoding ERM expression lock (at 15498) this U-22 where quality checked were the realts: 1 th 15408 Horban U-22 where quality checked standing PH 3 909 3-99 trees Chuich (2000 Simon left field office for Mui-9. 1200 Simon le | ERN Surface Weder / Sedinet Sampling | Project & Charter Of 1-6833-141-42245-310, ERM ERM Well Sampling (MU-DU-0029), Sample Managenet |
| Blog be left the field office for whigh the TRM Surface Which and Sections Sampling. 11200 Everyone arrived back at field office. 1200 Under break 1130 Lunch break 1132 Matt lagen alread, Callboated the Horban 1132 Matt lagen alread, Callboate evel 1230 Divert the reaths: 1242 Simon bet field office for Miles 1251 Leave maining reat. 1252 Arrived at miles for Miles 1257 Arrived back at field office. 1258 Eric and Simon left the field office. 1269 Simon bet field office for Miles 1270 Arrived at miles for Miles 1280 Simon bet field office for Miles 1280 Simon bet field office for Miles 1280 Simon bet field office for Miles 1290 Arrived at miles 1291 Arrived | (0705 Sima Fory (SASK) asrived at field office. Checking on samples (offected the last two days. Weater is dry but cod. Highsinkas. 0720 Matt Logian (SASK) conducted the sately medicin | 1225 Collect sample Mil-DU-OB9 (at MUI-9) (SAIL IIE) for Total / Isdopic Vanum (2, IL plastic - ungitered & unfreserved) Vsime a dia positive bucker |
| Unbaking ERM expression items and getting Slog test items feedy. 1130 Lunch loreak 1130 Lunch loreak 1132 Matt Logan alread, callocated the Horban U-22 water quality to take the Horban U-22 water quality to take water quality to take water quality (%m) 0.431 0.452 0.00 0.00 1.00 1.00 2.7 0.00 0.00 1.00 2.7 | 111200 Evenue arrived back at field office. | 1242 Simon bailed the well MM-9 dry but was only abole to get about 1.7 L at grundwater for samples |
| 1132 Matt Logan alread, Calibrated the Honba U-22 wide quality chelker (# 15498) this monthy. These are the results: 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> Horba <u>fre-Calibration Reside</u> But calibrate Reade standard. 1 <u>the 15498</u> <u>3.99</u> <u>4.1008</u> <u>11000</u> <u>5.000</u> <u>5.000</u> <u>1100</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>11000</u> <u>110000</u> <u>110000</u> <u>110000</u> <u>110000</u> <u>1100000</u> <u>110000</u> <u>110000000000</u> | Unlowing ERM equipment items and getting Slug test items ready. 11302 Lunch break | 1251 Leave min-9 to cenderous with Eric Schampf's team of JP6-01-01D |
| 1 <u>the 15498 Horba</u> <u>Arrived back of the well is 38.58 feet Bruc.</u> 1327 Arrived back of the field office. Sample manyement. 1327 Arrived back of the office. Sample manyement. 1327 Arrived back of the office. Sample manyement. 1328 Arrived at 41 the Areld office. 1329 Arrived Eriz off at the Madika. 1329 The water level 1329 Arrived at Columbus, IN Federex. 1328 Arrived at mut 9. The water level 1329 Arrived at Columbus, IN Federex. 1218 Arrived at mut 9. The water level 1218 Arrived at mut 9. The mut 9. The arrived at a the part of the mut 9. The arrived at a the part of the mut 9. The arrived at a the arrived at | 1132 Matt Logan already calibrated the Horiba U-22 water quality checker (# 15498) this months. These are the readts: | When tape. Eric & Shown are going back to field office to manage sayles and rat scan Bargmant. |
| pH 3.90 3.99 4.000 lbgs Enz and Simon left the field office. Contributing (Stan) 0.431 0.452 0.449 Simon dropped Eriz aff at the Madridan Turbiting (Nrv) 0.2 0.0 0.00 Tri model before going to Columbus, Int Federa 1200 Simon left field office for Mrv-9. 1218 Attrived at Mrv-9. The water level at Mrv-9 is 37.32 feet BPVC. Since the bottom of the well is 38.58 feet BPVC. Since the bottom of the well is 38.58 feet BPVC. Since the bottom of the well is 38.58 feet BPVC. Since there is not anough water to take water quilty formulations of the required sample volume of | How Calberton Real Add colomber Real Standay | 1327 Arrived back at firely office. |
| 1200 Simon left freld office for MNJ-9. 1218 Altried at MNJ-9. The water level at MNJ-9 is 37.32 feet BPVC. Since the bottom of the well is 38.58 feet BPVC. 1730 Arrived at Columbus, ZN FestEx. Dropping off 3 sample conters for test America -St. Lows Lab: Teuching #s - 7965-2602-3228 Primmeters and for required sample volume of 7975-1388-1140 | pH 3.99 4.60,ε Contraction (%m) Ø.431 Ø.452 Ø.449 Turbility (Nru) Ø.2 Ø.0 Ø.0 | 1605 Enz and Simon left the field office. Simon propped Eriz off at the Madrien Ind model before going to Columbus Int Feder |
| the bottom of the well is 38.58 feet BRIC. Teuching #s - 7965-2692-3191 there is not enough water to take water quirty formmeters and for required sample volume of 7975-1388-1450 | 12000 Show left field office for MNJ-9. 1218 Arrived at MNJ-9. The water level at MW-9 is 37.32 feel BPVC. Since | 1730 Arrived at Columbus, IN Fedrex. Dropping off 3 sample contents for test America -St. Louis Lab: |
| | the bottom of the well is 38.58 feet BRIC. there is not anough water to take water quarty primmeters and for required sample value of | Teuting #s - 7965- 2692-3191 -7965-2602-3228 -7975-1388-1160 |

Brokens Charles Pl-28833-04-420-310, ERM Sande Mungement. Smon left Felex ad is going back 01pp to Madison, IN 1900 Arnied back at Madison, I'l mole). Meet next day at \$700 at JRAGESON Proving Ground field office. \$740 0840 SF 4/16/49 6945 1008 1020 Fly at of Cincinneti Int'l Attract for Dellas 1420 It'l Airport.

4/16/39

1740

Jefforn Proving Grand 11 Hand 4/17/09 \$1-\$833-04-9381-210, Slug Testing Slug-Testing, Denobolization Simon Forg (SASi) arrived at field office. Got 6 buys of rce. Discussing plan about slug testing. Everyone leave the field office for JPb-DV-101I - Weather today is surry 2 dry with highs in love 705. Curreth TH'IS cool of 410°F. Arrived of JPG-DU-PII. Commerce Slig testing. Shis testing involves taking an Intial dept to mater, adding a datalogger to trak the changes in water levels; wrating for displaced water to get back to instinul hards. insert the stug (a long pole, about 4 for inth sand inside them) into well and cleck for changes in displaced water and the time of takes for displaced water to go back to mikial lords Simon left the slug. test team to, held office : Arried at field office. Dropping off items and returning gate key to ken knowt's office. Leave Jelleson Proving Grand for animal Asport.

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| BIN 10335-044 4220-310 ERM BRN Well Ruging (Kon Know f) The following information where compiled by Ken Knowl (IPHS Ste Manage). If is copied to this bayback. 1440 Ken Knowl (IPHS Ste Manage) started to purge wells as part of the Environnated Rodiffien Monitoring (ERM) Scaping side. The weather on 41/10/09 usis cloudy and the temperature is around 59°F. At Applel MN-7, Ken bailed the Well (MN-7, Ken bailed the Well (MN-6, 1103 Ken sopped well MN-6 with 21 bails and dred the well. 1130 Ken (appled purging MN-6, Aroueddo to MN-5. 1151 Ken purged well MM-5 with 10 bails a d dred the well. 1200 Ken (appled purging MN-5. 1151 Ken purged well MM-5 with 10 bails a d dred the well. 1200 Ken (appled purging MN-5. 1150 Ken (appled Purging MN-5. 1151 Ken purged well MM-5 with 10 bails a d dred the well. 1200 Ken (appled Purging MN-5. 1150 Ken (appled Pur | 18 Jonations Jefferson Proving Grand Date 4/10/09 | Located Tefferin Praise Graind Date 4/4/89 19 |
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| The following internation were completed by Ken Kouh (JTK Site Manager). It is copied to this bajbank. 19440 Ken Knof (JTK Sie Manager) started to proge wells as part of the Environneted Radiation Monitoring (ERM) Scorpling Side. The weather on this/logaris closing ind the temperature is around 59°F. At Analli MN-T, Ken bailed the Well (proged vising a dispushle baile) 35 threes. The wood did not go dry. 1103 Ken sopred paraging MM-5. 1111 Ken proged well MM-5 with 21 bails and dred the well. 11200 Ken (ampleted purging MM-5. 11200 Ken (ampleted purging | Frence : Client Ol-0733-64. 4220 - 310 ERM | Frenders Chern \$1-0833-04-4228-318, ERM ERM Well Purgung (ken Knowf) |
| Radiation Monitoring (ERM) Sampling Side. The weather on 4/10/09 was about 59°F. At Molell MW-7, Ken bailed the Well (punged Using a dispussible bailed) 35 thmes. The wall did not go dry. 1103 Ken stopped pauraing MV1-7. Proceeded to MW-6. 1111 Ken punged well MW-6 with 21 bails 1130 Ken (ampleted purging MV1-6. Proceeded) to MW1-5. 1151 Ken punged well MW1-5 with 10 bails 1151 Ken punged well MW1-5. 1151 Ken punged well MW1-5. 1151 Ken punged well MW1-5. 1151 Ken punged well MW1-5. 1151 Ken punged well MW1-5. 1150 Ken (ampleted punging MW1-5. 1150 Ken | The following information were compiled by Ken Knowf (JPG Site Manager). It is copied to this logbook. 19440 Ken Knowf (JPG Ste Manager) started to purge wells as part of the Environmeted | The following information were compled by Ken Knowf (JPG Site Manager). It is copied to this logbook. (380) Ken Knowf (JPG Ste Manager) continued purging wells for ERM sampling. Weather on 4/14/109 is rainy and the temperature |
| 1103 Ken shopped pairing MM-1. Molecular of the forger with 10.5 beils and the MM-6. 1 1111 Ken pinged well MM-6 with 21 bails (BSD) Ken completed pursuing MM-1. Proceeded to molecular the well. 11306 Ken completed purging MM-6. Aroceeded -to MM-5. 1151 Ken pinged well MM-5 with 10 bails and dred the well. 12000 Ken completed purging MM-5. 12000 Ken completed purging MM-5. 139 Ken pinged Well MM-8 with 5 bails and dred the well. 139 Ken completed purging MM-5. 139 Ken completed purging MM-5. | Radiation Monitoning (ERM) Sampling Sele. The weather on 4/10/009 was cloudy and the temperature is around 59°F. At Mulli MW-7, Ken bailed the Well (punged using a dispossible bailer) 35 times - The wall did not go day. | is around SooF. Ken purged these ERM wells wing a disposedyle barler. Ken purged the wells to dry. At MW-3, Ken bothfed the well 25 times before rit west dry. Ken completed purging MW-3. Proceeded to mad. 0823 Ken completed purging MW-3. Proceeded to mad. 0820 Ken completed purging MW-3. Proceeded to mad. |
| and dried the well. 11305 Ken completed purging MM-6. Proceeded to MW-5. 1151 Ken purged well MW-5 with 10 bails and dried the well. 12000 Ken completed purging MW-5. 1190 Ken purged well MW-4 with 31 bails. 1190 Ken purged well MW-4 with 31 bails. 1190 Ken purged mell MW-4 with 31 bails. 1190 Ken stopped purging MW-8. 1190 Ken purged Well MW-8 with 5 bails and dried the well. 1130 Ken completed purging MW-8. | 103 Ken stopped parging MM-1. 11000000 to MW-6. 1111 Ken proved well MW-6 with 21 bails | the well. (\$P\$1) Ken completed pursons MW-1. Proveded to my +1. |
| 1138 Ken Completed purging MULLS. 110000000 1119 Ken shopped purging MULL. Arreeded to -to MW-5. 1151 Ken purged well MW-5 with 10 bails 1130 Ken purged Well MW-8 with 5 bails and dred the well. 12000 Ken Completed purging MW-5. 1159 Ken Completed purging MW-8. | and dried the well. | 1100 Ken purged well Mur-4 with 31 bails. MW-4 never west dry. |
| 1151 Ken pirged well MW-5 with 10 bails ad dred the well. 12000 ken completed purging MW-5. 1130 Ken completed purging MW-8. | 1130 Ken completed pulling interes. Included to MW-5. | 1119 Ken stopped proging MW-4. Arreaded to |
| 12000 ken completed purging MW-5. 1139 Ken completed purging MW-8. | 1151 Ken proved well MM-5 which the bails and dred the well. | 1130 Ken projed Well MW-8 with 5 bails |
| | 1200 ken completed purging MW-5. | and dried the well. 1139 Ken completed purging MW-8. |
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| ERM Well Purging (ken knowf) | ERM Well Purging Table (summy) |
| 1404 Ken purged MW-11 with 23.5 boots and tried the well. Weather is still rainy around 410's of | C Contraction of Contraction |
| 1423 Ken completed proging mul-11. Proceeded to Min-++. | |
| 1434 Ken purged well MW-110 with 33 bails | |
| 1455 Ver (moleked purging MW-10, Proceeded) to MW-9 | 1 5555555555555555555555555555555555555 |
| 1502 Ken purged well MW-9 with 4 bails and dried the well. | HILLY (4 |
| 1505 Ken completed purging MW-9. Proceeded to MW-2. | P R A A P P P P P P P P P P P P P P P P |
| 1539 ken purged well MW-2 with 9 buils and | T C |
| 1546 Ken completed purging MW-Z. | T at M S N M S S M A A A |
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LLO OBSERVATIONS: College Units Serial NO. LAST CALIB. RADIOACTIVITY: H. Q. DOCK SIGO MPLE DEPTH GOLD SIGO CONDUCTIVITY: QOLD SIGO DO: GOLD SIGO ORGANIC VAPORS: GOLD SIGO ORGANIC VAPORS: GOLD SIGO | MPLE ID NUMBER: SDISU-DU-OOY DATE COLLECTED (MM/DD/YY): 4.14.09 TIME: SS0 [155] SO [155] SO [155] SCRIPTION: Survey Later [sectioned sample MPLING POINT CODE: SCRIPTION SCRIPTION MPLING POINT CODE: SCRIPTION MPLING POINT CODE: SCRIPTION RTHING: EASTING: ELEVATION: MPLE DEPTH CODE: TO DESCRIPTION: MPLE MEDIA CODE: TO DESCRIPTION: BLS MPLE MEDIA CODE: TO DESCRIPTION: BLS ACTIVITIES IN AREA: LD OBSERVATIONS: Colledor UH: Sand - Stift WI (Soud) MPLE MEDIA CODE: THER: CONDUCTIVITY: QCAS MINITS SERIAL NO. LD MEASUREMENTS READING UNITS SERIAL NO. 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MALL Conductivity: Conductivity: Conductivity: Conductivity: | PLE DEPTH CODE: TO BLS PLE MEDIA CODE: DESCRIPTION: THER: Cloudy SOF ACTIVITIES IN AREA: DOBSERVATIONS: Caleded Utr Sand Sitt WI Brane W of Droge COBSERVATIONS: Caleded Utr Sand Sitt WI Brane DOBSERVATIONS: Caleded Utr Sand Sitt WI Brane CONDUCTIVITY: CONDUCTIVITY: CONDUCTIVITY: CONDUCTIVITY: CONDUCTIVITY: CONDUCTIVITY: DO: Stand II | MPLE DEPTH CODE: TO BLS MPLE MEDIA CODE: DESCRIPTION: | MPLE DEPTH CODE: TO BLS MPLE MEDIA CODE: DESCRIPTION: | MPLE DEPTH CODE: TO BLS MPLE MEDIA CODE: DESCRIPTION: | MPLE DEPTH CODE: | APLE DEPTH CODE: TO BLS APLE MEDIA CODE: DESCRIPTION: | MPLE DEPTH CODE: TO BLS MPLE MEDIA CODE: DESCRIPTION: | MPLE DEPTH CODE: TO MPLE MEDIA CODE: DESCRIPTION: ACTIVITIES IN AREA: LD OBSERVATIONS: Collected UPL Sand Sitt W1 Stave W OF OF the sand Sitt W1 Stave W OF The sand Sitt W1 Stave W OF The sand Sitt W1 Stave W OF The sand Sit | IPLE DEPTH CODE: TO BLS IPLE MEDIA CODE: DESCRIPTION: | MPLE DEPTH CODE: | PLE DEPTH CODE: | MPLE DEPTH CODE: TO MPLE MEDIA CODE: DESCRIPTION: EATHER: Cloudy SUP ACTIVITIES IN AREA: ELD OBSERVATIONS: Collected Utility Sourd - Suft W1 grave W of Driver Sin Made of Control = 32 cpm ELD MEASUREMENTS READING UNITS SERIAL NO. 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| | REDOX: | REDOX: 1249 MV | REDOX: 249 MV DO: 9.38 MS/L ORGANIC VAPORS: | REDOX: JU9 MV DO: 1.58 M3/L ORGANIC VAPORS: | REDOX: J49 MV DO: 1.38 M9/L ORGANIC VAPORS: | REDOX: 249 MV DO: 9.38 MS/L ORGANIC VAPORS: | REDOX: AND DO: 1.38 ORGANIC VAPORS: 1.10 TURBIDITY: 1.3.4 | REDOX: JU9 MV DO: 9.38 M9/L ORGANIC VAPORS: - TURBIDITY: 33.4 NTO | REDOX: 249 mV DO: 1.38 mg/L ORGANIC VAPORS: - - TURBIDITY: 23.4 NTO | REDOX: JU9 MU DO: 9.38 MS/L ORGANIC VAPORS: | REDOX: 249 NV DO: 9.38 NS/L ORGANIC VAPORS: TURBIDITY: 23.4 NTO | REDOX: AND DO: 1.38 ORGANIC VAPORS: | REDOX: DO: DO: Q.S. MOL | REDOX: 249 MU DO: 9.38 MUL | REDOX: 249 MV DO: 9.38 MAL | REDOX: 149 mV DO: 9 x8 mail | REDOX: DO' 9 28 mail | REDOX: | REDOX: DO: 9 28 mall | DO: 9.38 MAIL | REDOX: 249 NV DO: 9.38 NOIL ORGANIC VAPORS: | REDOX: 149 MV DO: 9.38 MS/L ORGANIC VAPORS: | REDOX: JU9 NV DO: 9.38 MS/L ORGANIC VAPORS: | REDOX: 249 NV DO: 9.38 MSIL ORGANIC VAPORS: | REDOX: JUG NV DO: 1.38 MS/L ORGANIC VAPORS: - TURBIDITY: 33.4 OTHER JOSE | REDOX: HI DO: 1.38 ORGANIC VAPORS: - TURBIDITY: 33.4 NTU OTHER 35.4 | REDOX: NI DO: 1.38 ORGANIC VAPORS: - TURBIDITY: 13.4 OTHER 5 | REDOX: JU9 NV DO: 9.38 Mg/L ORGANIC VAPORS: - TURBIDITY: 33.4 NTO | REDOX: HI DO: 1.38 ORGANIC VAPORS: - TURBIDITY: 13.4 OTHER 0058 |
| | REDOX: 249 mV | REDOX: AND DO | REDOX: 249 mV DO: 9.28 mg/L ORGANIC VAPORS: | REDOX: All no DO: 1.38 ORGANIC VAPORS: - TURBIDITY: 3.34 | REDOX: 249 NV DO: 9.38 MS/L ORGANIC VAPORS: | REDOX: JU9 NV DO: 1.58 M9/L ORGANIC VAPORS: - TURBIDITY: 33.4 NTU | REDOX: Image: Constraint of the second sec | REDOX: 249 MV DO: 1.38 M9/L ORGANIC VAPORS: - TURBIDITY: 23.4 | REDOX: JUG NU DO: 1.38 NUL ORGANIC VAPORS: - - TURBIDITY: 33.4 NU | REDOX: Jug MU DO: 1.38 MS/L ORGANIC VAPORS: 1.34 MTU TURBIDITY: 33.4 NTU | REDOX: All NU DO: 1.58 NS/L ORGANIC VAPORS: 1.58 TURBIDITY: 33.4 | REDOX: Implement DO: 1.3 ORGANIC VAPORS: 1 | REDOX: DO: DO: DO: DO: DO: DO: DO: DO: DO: DO | REDOX: 249 MU DO: 9.38 MUL | REDOX: 249 MV DO: 9.38 MALL | REDOX: DO: 9 28 mail | REDOX: 149 MV | REDOX: | REDOX: ALA MU | DO: 9.38 MAIL | REDOX: DO: 138 NOIL ORGANIC VAPORS: | REDOX: 249 mV DO: 9.38 mg/L ORGANIC VAPORS: | REDOX: Jug mV DO: 1.38 mg/l ORGANIC VAPORS: | REDOX: Jug mV DO: 9.38 myll ORGANIC VAPORS: | REDOX: June mV DO: 1.38 myll ORGANIC VAPORS: - TURBIDITY: 33.4 OTHER JOSE | REDOX: HI NV DO: 1.38 M3/L ORGANIC VAPORS: - TURBIDITY: 33.4 NTU OTHER 2058 - | REDOX: HI DO: 1.38 ORGANIC VAPORS: - TURBIDITY: 33.4 OTHER 35.4 | REDOX: Jug mV DO: 1.38 Mg/L ORGANIC VAPORS: | REDOX: HI NU DO: 1.38 MS/L ORGANIC VAPORS: - - TURBIDITY: 33.4 NTO OTHER 0058 - |
| | REDOX: | REDOX: 1249 MV | REDOX: 249 mV DO: 9.28 mg/L ORGANIC VAPORS: | REDOX: 249 NV DO: 1.38 N31 ORGANIC VAPORS: - TURBIDITY: 234 | REDOX: 249 MV DO: 9.38 M9/L ORGANIC VAPORS: | REDOX: JU9 NV DO: 1.58 M9/L ORGANIC VAPORS: - TURBIDITY: 33.4 NTU | REDOX: Image: Constraint of the second sec | REDOX: 249 MV DO: 9.38 M9/L ORGANIC VAPORS: - TURBIDITY: 23.4 | REDOX: HI DO: 1.38 MOIL ORGANIC VAPORS: TURBIDITY: 33.4 | REDOX: Jug mV DO: 1.38 MS/L ORGANIC VAPORS: 1 TURBIDITY: 33.4 | REDOX: 249 NV DO: 9.38 NS/L ORGANIC VAPORS: TURBIDITY: 23.4 NV OTHER AGO | REDOX: Alg MU DO: 1.38 MU ORGANIC VAPORS: 1 | REDOX: DO: DO: DO: DO: DO: DO: DO: DO: DO: DO | REDOX: 249 MU DO: 9.38 MUL | REDOX: 249 MV DO: 9.38 MAL | REDOX: DO: 9 28 mail | REDOX: 249 MV | REDOX: AND DO: Q XX MAL | REDOX: ANG MU DO: 9 28 mail | DO: 9.38 MAIL | REDOX: 249 NV DO: 9.38 NOIL ORGANIC VAPORS: | REDOX: 249 mV DO: 9.38 mg/L ORGANIC VAPORS: | REDOX: JU9 MV DO: 1.38 M3/L ORGANIC VAPORS: | REDOX: 249 NV DO: 9.38 NSIL ORGANIC VAPORS: | REDOX: Jug mV DO: 1.38 mg/L ORGANIC VAPORS: - TURBIDITY: 33.4 OTHER JOSE | REDOX: HI DO: 1.38 ORGANIC VAPORS: - TURBIDITY: 33.4 NTU OTHER 35.4 | REDOX: HI DO: 1.38 ORGANIC VAPORS: - TURBIDITY: 33.4 OTHER 35.4 | REDOX: Jug mu DO: 1.38 Mg/L ORGANIC VAPORS: | REDOX: HI DO: 1.38 ORGANIC VAPORS: - TURBIDITY: 13.4 OTHER 0058 |
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| IHI-90 bock ground : FIELD MEASUREMENTS RADIOACTIVITY: TEMPERATURE: pH: CONDUCTIVITY: REDOX: DO: ORGANIC VAPORS: TURBIDITY: OTHER COLLECTED: SAMPLE TYPE: SAMPLE COLLECTED: YES IF SAP WAS NOT FOLLOWED. Corded By: (Sign colspan="2">Sign colspan="2">CORGANIC SAP | READING | UNITS CPS J SPA J QC I QC CI | SERIAL NO. | LAST CALIB. |

99.6 McP6540408.66

F1P4215, Revision 0, 4 07 00

APPENDIX C DATA VALIDATION SUMMARY

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C. DATA VALIDATION SUMMARY

C.1 TestAmerica SDG F9D170271

This report contains the results from the data validation technical review for the Jefferson Proving Ground (JPG) Environmental Radiation Monitoring (ERM) April 2009 samples and analyses that are associated with the above-referenced laboratory and sample delivery group (SDG) number. These data points have been selected for data validation, and the sample data summary sheets on the following pages specifically identify the samples and analyses associated with this validation review.

The JPG validation technical review was conducted in accordance with the U.S. Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review (July 2002) and Science Applications International Corporation (SAIC) Quality Assurance Technical Procedure (QATP) No. TP-DM-300-7, Data Validation (Revision 0, 2/2004). The validation technical review was based on the information and documentation supplied by the associated laboratory. The analyses were evaluated against criteria established in the related analytical procedures and the JPG data quality requirements.

The attachment to this report provides the sample data summary sheets for the samples associated with the above-referenced SDGs. These summary sheets identify the analytical values and the qualifiers for each sample and parameter. The attachment also outlines the validation qualifiers and reason codes used in the validation of the data.

| Report Summary | |
|--|------|
| Total Number of Samples | 35 |
| Total Number of Data Points | 140 |
| Total Number of Rejected Data Points | 0 |
| Percent Completeness (approval to rejection ratio) | 100% |

C.1.1 ANALYTICAL CATEGORY: RADIOCHEMICAL

- Uranium-234 (U-234), Uranium-235 (U-235), and Uranium-238 (U-238) were determined by alpha spectrometry (U.S. Department of Energy [DOE] HASL-300 Methods Compendium A-01-R). Total uranium was calculated using a published specific activity value for U-238 and assuming all of the mass originates from U-238.
- All samples were analyzed with SDG F9D170271.
- 1. The following items (as applicable) have been addressed during the validation review:
 - Sample custody, integrity, and preservation
 - Sample handling and preparation
 - Holding times
 - Instrument calibration and performance
 - Dilution factors
 - Detection limits
 - Laboratory background and carry-over

- Overall assessment of the data
- Quality control (QC)
 - Calibration checks and background
 - Preparation blanks
 - Laboratory control samples
 - Field blanks (if available)
 - Field duplicates (if available)
 - Chemical yield (tracer recovery)
 - Laboratory duplicates.

- 2. The above items were found to be acceptable, except as follows:
 - **Overall Assessment of Data**—U-234, U-235, and U-238 sample data with results greater than the minimum detectable concentration (MDC) were qualified as estimated, *J*, reason code 37 in instances where the associated error was greater than 50 percent of the sample result.
 - Method Blank Evaluation—U-234 was present in the associated water method blanks at 0.05 ± 0.044 and 0.044 ± 0.04 picocuries per liter (pCi/L). This may indicate that contamination could have been introduced during the laboratory preparation. Those samples where the normalized absolute difference (NAD) between the sample and the method blank was less than 2.58 were qualified as estimated, *J*, with a reason code 6 for the U-234 results via alpha spectroscopy. Although the blank contamination required qualification of associated sample data, the contamination was below the requested MDC of 0.1 pCi/L.

The attached sample data summary for soil and water samples provides the qualifiers and the appropriate validation code for all samples.

SAMPLE INDEX

Laboratory:

TestAmerica Laboratories, Inc.

SDG #: F9D170271

| Client Sample I.D. | Laboratory Sample I.D. | Date Collected | Analyses Performed |
|--------------------|------------------------|----------------|----------------------------|
| MW-DU-001 SAIC11E | F9D170271-006 | 04/14/09 | Total and Isotopic Uranium |
| MW-DU-002 SAIC11E | F9D170271-009 | 04/15/09 | Total and Isotopic Uranium |
| MW-DU-003 SAIC11E | F9D170271-005 | 04/14/09 | Total and Isotopic Uranium |
| MW-DU-004 SAIC11E | F9D170271-007 | 04/14/09 | Total and Isotopic Uranium |
| MW-DU-005 SAIC11E | F9D170271-001 | 04/14/09 | Total and Isotopic Uranium |
| MW-DU-006 SAIC11E | F9D170271-002 | 04/14/09 | Total and Isotopic Uranium |
| MW-DU-007 SAIC11E | F9D170271-003 | 04/14/09 | Total and Isotopic Uranium |
| MW-DU-007 SAIC11DE | F9D170271-004 | 04/14/09 | Total and Isotopic Uranium |
| MW-DU-008 SAIC11E | F9D170271-008 | 04/14/09 | Total and Isotopic Uranium |
| MW-DU-009 SAIC11E | F9D170271-012 | 04/16/09 | Total and Isotopic Uranium |
| MW-DU-010 SAIC11E | F9D170271-010 | 04/15/09 | Total and Isotopic Uranium |
| MW-DU-011 SAIC11E | F9D170271-011 | 04/15/09 | Total and Isotopic Uranium |
| SW-DU-001 SAIC11E | F9D170271-034 | 04/16/09 | Total and Isotopic Uranium |
| SW-DU-002 SAIC11E | F9D170271-032 | 04/16/09 | Total and Isotopic Uranium |
| SW-DU-003 SAIC10E | F9D170271-016 | 04/14/09 | Total and Isotopic Uranium |
| SW-DU-004 SAIC11E | F9D170271-027 | 04/16/09 | Total and Isotopic Uranium |
| SW-DU-004 SAIC11DE | F9D170271-028 | 04/16/09 | Total and Isotopic Uranium |
| SW-DU-005 SAIC11E | F9D170271-030 | 04/16/09 | Total and Isotopic Uranium |
| SW-DU-006 SAIC11E | F9D170271-013 | 04/14/09 | Total and Isotopic Uranium |
| SW-DU-007 SAIC11E | F9D170271-025 | 04/14/09 | Total and Isotopic Uranium |
| SW-DU-008 SAIC11E | F9D170271-021 | 04/14/09 | Total and Isotopic Uranium |
| SS-DU-001 SAIC11E | F9D170271-015 | 04/14/09 | Total and Isotopic Uranium |
| SS-DU-002 SAIC11E | F9D170271-020 | 04/14/09 | Total and Isotopic Uranium |
| SS-DU-003 SAIC11E | F9D170271-019 | 04/14/09 | Total and Isotopic Uranium |
| SS-DU-004 SAIC11E | F9D170271-023 | 04/14/09 | Total and Isotopic Uranium |
| SS-DU-004 SAIC11DE | F9D170271-024 | 04/14/09 | Total and Isotopic Uranium |
| SD-DU-001 SAIC11E | F9D170271-035 | 04/16/09 | Total and Isotopic Uranium |
| SD-DU-002 SAIC11E | F9D170271-033 | 04/16/09 | Total and Isotopic Uranium |
| SD-DU-003 SAIC11E | F9D170271-017 | 04/14/09 | Total and Isotopic Uranium |
| SD-DU-003 SAIC11DE | F9D170271-018 | 04/14/09 | Total and Isotopic Uranium |
| SD-DU-004 SAIC11E | F9D170271-029 | 04/16/09 | Total and Isotopic Uranium |
| SD-DU-005 SAIC11E | F9D170271-031 | 04/16/09 | Total and Isotopic Uranium |
| SD-DU-006 SAIC11E | F9D170271-014 | 04/14/09 | Total and Isotopic Uranium |
| SD-DU-007 SAIC11E | F9D170271-026 | 04/14/09 | Total and Isotopic Uranium |
| SD-DU-008 SAIC11E | F9D170271-022 | 04/14/09 | Total and Isotopic Uranium |

NA - Not applicable. Sample could not be collected because sample location was dry.

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ATTACHMENT

JEFFERSON PROVING GROUND SAMPLE DATA SUMMARY SHEETS

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| RY – SOILS |
|------------|
| SDG #: |
| F9D170271 |
| |

| | | | Isotopic Urar ASTM D3972 | nium -90M | | , | |
|--------------------|---------|--------|-----------------------------|--------------|---------|-----------|-------------|
| Sample I.D. | Analyte | Result | Error | MDC | Units | Qualifier | Reason Code |
| SS-DU-001 \$AIC11E | U-234 | 0.63 | 0.12 | 0.04 | pCi/g | | ш. Т |
| SS-DU-001 SAIC11E | U-235 | 0.019 | 0.024 | 0.035 | pCi/g | U | |
| SS-DU-001 SAIC11E | U-238 | 0.71 | 0.13 | 0.04 | pCi/g | | |
| SS-DU-001 SAIC11E | Total U | 2.13 | 0.39 | 0.11 | µg/g | | |
| | • | | | | | • | |
| SS-DU-002 SAIC11E | U-234 | 0.91 | 0.15 | 0.03 | pCi/g | | |
| SS-DU-002 SAIC11E | U-235 | 0.074 | 0.042 | 0.026 | pCi/g | J | 37 |
| SS-DU-002 SAIC11E | U-238 | 0.85 | 0.14 | 0.02 | pCi/g | | |
| SS-DU-002 SAIC11E | Total U | 2.56 | 0.43 | 0.06 | ⊔µg/g | | |
| | | | | | | | |
| SS-DU-003 SAIC11E | U-234 | 0.73 | 0.13 | 0.04 | pCi/g | | |
| SS-DU-003 SAIC11E | U-235 | 0.034 | 0.028 | 0.027 | pCi/g | J | 37 |
| SS-DU-003 SAIC11E | U-238 | 0.83 | 0.14 | 0.04 | pCi/g | | |
| SS-DU-003 SAIC11E | Total U | 2.49 | 0.41 | 0.11 | µg/g | | - |
| • | | | | | | | |
| SS-DU-004 SAIC11E | U-234 | · 0.79 | 0.13 | 0.02 | pCi/g | | |
| SS-DU-004 SAIC11E | U-235 | 0.059 | 0.036 | 0.027 | pCi/g | J | 37 |
| SS-DU-004 SAIC11E | U-238 | 0.68 | 0.12 | 0.02 | pCi/g | | |
| SS-DU-004 SAIC11E | Total U | 2.05 | 0.36 | 0.07 | µg/g | | |
| • | ł | | | | | | |
| SS-DU-004 SAIC11DE | U-234 | 0.78 | 0.14 | 0.03 | pCi/g | | |
| SS-DU-004 SAIC11DE | U-235 | 0.055 | 0.035 | 0.015 | pCi/g | J | 37 |
| SS-DU-004 SAIC11DE | U-238 | 0.77 | 0.13 | 0.02 | pCi/g | | |
| SS-DU-004 SAIC11DE | Total U | 2.32 | 0.40 | 0.06 | µg/g | | |
| | | | | | | | |
| SD-DU-001 SAIC11E | U-234 | 0.90 | 0.14 | 0.04 | pCi/g | | |
| SD-DU-001 SAIC11E | U-235 | 0.081 | 0.041 | 0.022 | ′ pCi/g | J | 37 |
| SD-DU-001 SAIC11E | U-238 | 0.93 | 0.14 | 0.03 | pCi/g | | |
| SD-DU-001 SAIC11E | Total U | 2.80 | 0.43 | 0.09 | µg/g | | |
| | - | | • . | | | | |
| SD-DU-002 SAIC11E | U-234 | 0.58 | 0.11 | 0.03 | pCi/g | | |
| SD-DU-002 SAIC11E | U-235 | 0.054 | 0.034 | 0.023 | pCi/g | J | 37 |
| SD-DU-002 SAIC11E | U-238 | 0.66 | 0.12 | 0.02 | pCi/g | | |
| SD-DU-002 SAIC11E | Total U | 2.00 | 0.35 | 0.07 | μg/g | | |
| | , | | | | | | |
| SD-DU-003 SAIC11E | U-234 | 0.71 | 0.12 | 0.04 | pCi/g | | |
| SD-DU-003 SAIC11E | U-235 | 0.018 | 0.024 | 0.037 | pCi/g | U | |

| Isotopic Uranium ASTM D3972-90M | | | | | | | |
|---------------------------------------|---------------------------------------|--------|-------|----------|-------|---------------------------------------|------------------|
| Sample I.D. | Analyte | Result | Error | MDC | Units | Qualifier | Reason Code |
| SD-DU-003 SAIC11E | U-238 | 0.56 | 0.11 | 0.05 | pCi/g | | |
| SD-DU-003 SAIC11E | Total U | 1.68 | 0.32 | 0.14 | µg/g | | |
| | | | | | | | |
| SD-DU-003 SAIC11DE | U-234 | 0.82 | 0.14 | 0.04 | pCi/g | | |
| SD-DU-003 SAIC11DE | U-235 | 0.024 | 0.024 | 0.029 | pCi/g | U | |
| SD-DU-003 SAIC11DE | U-238 | 0.81 | 0.14 | 0.03 | pCi/g | | · · · · · |
| SD-DU-003 SAIC11DE | Total U | 2.44 | 0.41 | 0.09 | µg/g | | |
| | | | | | | | |
| SD-DU-004 SAIC11E | U-234 | 0.206 | 0.063 | 0.023 | pCi/g | | |
| SD-DU-004 SAIC11E | U-235 | 0.057 | 0.036 | 0.029 | pCi/g | J | 37 |
| SD-DU-004 SAIC11E | U-238 | 0.224 | 0.065 | 0.020 | pCi/g | _ | |
| SD-DU-004 SAIC11E | Total U | 0.69 | 0.19 | 0.06 | µg/g | | 1 |
| · · · · · · · · · · · · · · · · · · · | : | | `` | . | · | | |
| SD-DU-005 SAIC11E | U-234 | 0.141 | 0.049 | 0.018 | pCi/g | | 4 |
| SD-DU-005 SAIC11E | U-235 | 0.015 | 0.017 | 0.013 | pCi/g | J | 37 |
| SD-DU-005 SAIC11E | U-238 | 0.227 | 0.063 | 0.021 | pCi/g | | - - - - |
| SD-DU-005 SAIC11E | Total U | 0.68 | 0.19 | 0.06 | µg/g | <u></u> | |
| | · · · · · · · · · · · · · · · · · · · | | | | | · · · · · | |
| SD-DU-006 SAIC11E | U-234 | 0.363 | 0.094 | 0.040 | pCi/g | | ; |
| SD-DU-006 SAIC11E | U-235 | 0.058 | 0.040 | 0.030 | pCi/g | J | 37 |
| SD-DU-006 SAIC11E | U-238 | 0.366 | 0.094 | 0.034 | pCi/g | · · · · · · · · · · · · · · · · · · · | · |
| SD-DU-006 SAIC11E | Total U | 1.12 | 0.28 | 0.10 | µg/g | · · | |
| | | a | | | | | |
| SD-DU-007 SAIC11E | U-234 | 0.72 | 0.13 | 0.03 | pCi/g | | |
| SD-DU-007 SAIC11E | U-235 | 0.073 | 0.041 | 0.015 | pCi/g | J | 37 |
| SD-DU-007 SAIC11E | U-238 | 0.78 | 0.14 | 0.03 | pCi/g | | 4 |
| SD-DU-007 SAIC11E | Total U | 2.36 | 0.41 | 0.08 | µg/g | | 4 |
| T | | | | | | | |
| SD-DU-008 SAIC11E | U-234 | 0.383 | 0.086 | 0.032 | pCi/g | | |
| SD-DU-008 SAIC11E | U-235 | 0.044 | 0.030 | 0.023 | pCi/g | J | 37 |
| SD-DU-008 SAIC11E | U-238 | 0.68 | 0.12 | 0.03 | pCi/g | ļ | · · |
| SD-DU-008 SAIC11E | Total/U | 2.04 | 0.36 | 0.08 | µg/g | | , |

| , | | SAMPLE DA | ATA SUMMARY | - WAIERS | | | . <u> </u> | |
|---|---------------------------------------|-----------|---------------|----------|-------------|---------------------------------------|-------------|--|
| Laboratory: TestAmerica Laboratories, Inc. | | | | | | SDG #: | | |
| | | | | | | F9D170271 | | |
| | · · · · · · · · · · · · · · · · · · · | ls | otopic Uraniu | m | | | | |
| | | A | STM D3972-90 | <u>M</u> | | | _ | |
| Sample I.D. | Analyte | Result | Error | MDC | Units | Qualifier | Reason Code | |
| MW-DU-001 SAIC11E | U-234 | 0.30 | 0.13 | 0.08 | pCi/L | J | 6 | |
| MW-DU-001 SAIC11E | U-235 | 0.051 | 0.059 | 0.046 | pCi/L | J | 37 | |
| MW-DU-001 SAIC11E | U-238 | 0.20 | 0.11 | 0.06 | pCi/L | J | 37 | |
| MW-DU-001 SAIC11E | Total U | 0.62 | 0.32 | 0.18 | µg/L | | | |
| MW-DU-002 SAIC11E | U-234 | 1.36 | 0.27 | 0.07 | pCi/L | | | |
| MW-DU-002 SAIC11E | U-235 | 0.21 | 0.11 | 0.07 | pCi/L | J | 37 | |
| MW-DU-002 SAIC11E | U-238 | 0.61 | 0.17 | 0.07 | pCi/L | | | |
| MW-DU-002 SAIC11E | Total U | 1.91 | 0.52 | 0.21 | µg/L | | | |
| · · · · · · · · · · · · · · · · · · · | | | | 1 | | | | |
| MW-DU-003 SAIC11E | U-234 | 0.65 | 0.18 | 0.09 | pCi/L | J | 6 | |
| MW-DU-003 SAIC11E | U-235 | 0.041 | 0.052 | 0.074 | pCi/L | <u> </u> | · | |
| MW-DU-003 SAIC11E | U-238 | 0.34 | 0.12 | 0.07 | pCi/L | | | |
| MW-DU-003 SAIC11E | Total U | 1.03 | 0.37 | 0.21 | µg/L | | | |
| MW-DU-004 SAIC11E | U-234 | 0.42 | 0.14 | 0.07 | pCi/L | J | 6 | |
| MW-DU-004 SAIC11E | U-235 | . 0.013 | 0.027 | 0.036 | pCi/L | Ū | | |
| MW-DU-004 SAIC11E | U-238 | 0.37 | 0.13 | 0.07 | pCi/L | | • | |
| MW-DU-004 SAIC11E | Total U | 1.11 | 0.39 | 0.22 | µg/L | | · · · | |
| | | 0.00 | 0.44 | 0.44 | 0:4 | - | | |
| MW-DU-005 SAIC11E | 0-234 | 0.29 | 0.14 | 0.14 | | J | 6 | |
| MW-DU-005 SAIC11E | 0-235 | 0.012 | 0.047 | 0.11 | pCi/L | <u> </u> | | |
| MW-DU-005 SAIC11E | 0-238 | 0.20 | 0.11 | 0.09 | pCI/L | J | 37 | |
| MW-DU-005 SAIC11E | Total U | 0.60 | 0.32 | 0.28 | μg/L | | | |
| | 11 234 | 1 21 | 0.24 | 0.08 | nCi/l | 1 | | |
| | 11 225 | 0.110 | 0.24 | 0.055 | | <u> </u> | 37 | |
| | 11-238 | 1.05 | 0.070 | 0.000 | | | | |
| MW-DU-006 SAIC11E | Total U | 3.19 | 0.22 | 0.20 | | | | |
| | | , | 0.00 | 0.20 | <u> </u> | · · · · · · · · · · · · · · · · · · · | | |
| MW-DU-007 SAIC11E | U-234 | 1.42 | 0.28 | 0.07 | pCi/L | | | |
| MW-DU-007 SAIC11E | U-235 | 0.100 | 0.076 | 0.039 | pCi/L | J | 37 | |
| MW-DU-007 SAIC11E | U-238 | 0.86 | 0.21 | 0.08 | pCi/L | - | 1 | |
| MW-DU-007 SAIC11E | Total U | 2.60 | 0.64 | 0.23 | µg/L | | | |
| | 1 11 65 1 | | 0.05 | 0.07 | C :" | 1 | · · · | |
| MW-DU-00/ SAIC11DE | 0-234 | 1.28 | 0.25 | 0.07 | | · | | |
| MW-DU-007 SAIC11DE | U-235 | 0.079 | 0.062 | 0.053 | pCI/L | J | 3/ | |
| MW-DU-007 SAIC11DE | U-238 | 0.78 | 0.18 | 0.07 | pCi/L | | | |
| MW-DU-007 SAIC11DE | Total U | 2.36 | 0.55 | 0.2 | µg/L | <u> </u> | _ | |
| MW-DU-008 SAIC11E | U-234 | 0.24 | 0.11 | 0.07 | pCi/L | J | 6 | |
| MW-DU-008 SAIC11E | U-235 | 0.046 | 0.054 | 0.070 | pCi/L | U U | | |

Att-3

| · . | | l: A | sotopic Uraniu STM D3972-90 | m M | | | |
|---------------------------------------|-----------|---------------|--------------------------------|----------------|----------|------------|---------------------------------------|
| Sample I.D. | Analyte | Result | Error | MDC | Units | Qualifier | Reason Code |
| MW-DU-008 SAIC11E | U-238 | 0.184 | 0.094 | 0.069 | pCi/L | J | 37 |
| MW-DU-008 SAIC11E | Total U | 0.57 | 0.28 | 0.21 | µg/L | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | | 1 |
| MW-DU-009 SAIC11E | U-234 | 0.86 | 0.19 | 0.08 | pCi/L | | |
| MW-DU-009 SAIC11E | U-235 | 0.089 | 0.065 | 0.052 | pCi/L | J | 37 |
| MW-DU-009 SAIC11E | U-238 | 0.40 | 0.13 | . 0.07 | pCi/L | | |
| MW-DU-009 SAIC11E | Total U | 1.23 | 0.38 | 0.20 | µg/L | | |
| · · · · · · · · · · · · · · · · · · · | ·r | | | - . | · | | |
| MW-DU-010 SAIC11E | U-234 | 1.99 | 0.33 | 0.08 | pCi/L | | |
| MW-DU-010 SAIC11E | U-235 | 0.109 | 0.081 | 0.085 | pCi/L | J | 37 |
| MW-DU-010 SAIC11E | U-238 | 0.81 | 0.19 | 0.05 | pCi/L | | |
| MW-DU-010 SAIC11E | Total U | 2.45 | 0.57 | 0.14 | µg/L | | <u></u> |
| | ~ <u></u> | | T | | | ····· | |
| MW-DU-011 SAIC11E | U-234 | 0.27 | 0.11 | 0.07 | pCi/L | J | 6 |
| MW-DU-011 SAIC11E | U-235 | 0.021 | 0.034 | 0.054 | pCi/L | U | |
| MW-DU-011 SAIC11E | U-238 | 0.072 | 0.055 | 0.051 | pCi/L | J | 37 |
| MW-DU-011 SAIC11E | Total U | 0.22 | 0.16 | 0.15 | µg/L | | |
| | | | 1 | | | ۰ <u>۲</u> | |
| SW-DU-001 SAIC11E | U-234 | 0.106 | 0.072 | 0.073 | pCi/L | J | 6, 37 |
| SW-DU-001 SAIC11E | U-235 | 0.019 | 0.037 | 0.067 | pCi/L | U | |
| SW-DU-001 SAIC11E | U-238 | 0.071 | 0.054 | 0.027 | pCi/L | <u> </u> | 37 |
| SW-DU-001 SAIC11E | Total U | 0.22 | 0.16 | 0.09 | μg/L | | |
| | | | 0.070 | | 0:" | 1 | 0.07 |
| SW-DU-002 SAIC11E | U-234 | 0.142 | 0.072 | 0.046 | pCi/L | J | 6, 37 |
| SW-DU-002 SAIC11E | 0-235 | 0.013 | 0.032 | 0.063 | pCi/L | U | |
| SW-DU-002 SAIC11E | U-238 | 0.054 | 0.046 | 0.051 | pCi/L | J | 37 |
| SW-DU-002 SAIC11E | l otal U | 0.17 | 0.14 | 0.15 | µg/L | | |
| | 11.004 | 0.074 | 0.070 | | 0:4 | | · · · · · · · · · · · · · · · · · · · |
| SW-DU-003 SAIC10E | 0-234 | 0.071 | 0.079 | 0.12 | pCI/L | | |
| SW-DU-003 SAICTUE | 0-235 | 0.029 | 0.042 | 0.040 | | <u> </u> | 07 |
| SW-DU-003 SAICTUE | 0-238 | 0.153 | 0.090 | 0.075 | | J | 31 |
| SW-DU-003 SAICIUE | Total U | 0.47 | 0.27 | 0.22 | µg/L | | |
| SW DU 004 SAIC11E | 11.224 | 0.221 | 0.000 | 0.064 | nCi/l | F 1 | 6 |
| SW DU 004 SAICTTE | 0-234 | 0.221 | 0.099 | 0.004 | | J | <u> </u> |
| SW DU 004 SAICTTE | 0-230 | -0.012 | 0.013 | 0.060 | | 1 | 37 |
| SW-DU-004 SAICTTE | Total II | 0.095 | 0.004 | 0.000 | | J | 57 |
| SW-DO-004 ORIGITE | Total O | 0.20 | 0.13 | 0.10 | py/L | | |
| SW-DIL004 SAIC11DE | 11-234 | 0.133 | 0.080 | 0.071 | nCi/l | · | 6 37 |
| SW-DU-004 SAIC11DE | 11-235 | 0.133 | 0.000 | 0.071 | pOi/L | | 0,07 |
| SW-DU-004 SAIC11DE | 11-238 | 0.010 | 0.027 | 0.033 | DCi/L | i | 37 |
| SW-DU-004 SAIC11DE | Total II | 0.000 0.15 | 0.047 | 0.047 | | | 51 |
| | | 0.10 | 0.14 | 0.14 | | 1 | <u> </u> |
| SW-DU-005 SAIC11E | 11-234 | 0 187 | 0.000 | 0.10 | nCi/l | .1 | 6.37 |
| SW-DU-005 SAIC11E | 11-235 | -0.009 | 0.000 | 0.10 | nCi/l | | 0,07 |
| SW-DU-005 SAIC11E | U-238 | 0 174 | 0.096 | 0.11 | nCi/l | | 37 |
| SW-DU-005 SAIC11F | Total U | 0.51 | 0.29 | 0.32 | ua/l | | |
| | | 0.01 | <u></u> | | <u> </u> | , | |
| SW-DU-006 SAIC11E | U-234 | 0.089 | 0.075 | 0.094 | pCi/L | · U | |

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Att-4

| Isotopic Uranium ASTM D3972-90M | | | | | | | |
|------------------------------------|---------|--------|-------|-------|-------|-----------|-------------|
| Sample I.D. | Analyte | Result | Error | MDC | Units | Qualifier | Reason Code |
| SW-DU-006 SAIC11E | U-235 | 0.025 | 0.041 | 0.065 | pCi/L | U | |
| SW-DU-006 SAIC11E | U-238 | 0.137 | 0.080 | 0.031 | pCi/L | J | 37 |
| SW-DU-006 SAIC11E | Total U | 0.42 | 0.24 | 0.1 | µg/L | | |
| | | | | | , | | |
| SW-DU-007 SAIC11E | U-234 | 0.113 | 0.075 | 0.065 | pCi/L | J | 6, 37 |
| SW-DU-007 SAIC11E | U-235 | 0.041 | 0.048 | 0.037 | pCi/L | J | 37 |
| SW-DU-007 SAIC11E | U-238 | 0.141 | 0.081 | 0.050 | pCi/L | J | 37 |
| SW-DU-007 SAIC11E | Total U | 0.44 | 0.24 | 0.15 | µg/L | | |
| · · · · · · | | | | | | | |
| SW-DU-008 SAIC11E | U-234 | 0.093 | 0.063 | 0.052 | pCi/L | J | 6, 37 |
| SW-DU-008 SAIC11E | U-235 | 0.037 | 0.042 | 0.033 | pCi/L | J | 37 |
| SW-DU-008 SAIC11E | U-238 | 0.093 | 0.063 | 0.052 | pCi/L | J | 37 |
| SW-DU-008 SAIC11E | Total U | 0.29 | 0.19 | 0.16 | µg/L | | |

KEY TO THE DATA VALIDATION QUALIFIERS

| | QUALIFIERS |
|----|---|
| U | Indicates that the data met all quality assurance/quality control (QA/QC) requirements, and that the radionuclide was analyzed for but was not detected above the reported sample quantitation limit. |
| J | Indicates that the radionuclide was positively identified; the associated numerical value is the approximate concentration of the radionuclide in the sample. |
| IJ | Indicates that the radionuclide was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| N | The analysis indicates the presence of a radionuclide for which there is presumptive evidence to make a "tentative identification." |
| R | Indicates that the sample results for the radionuclide are rejected or unusable due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the radionuclide cannot be verified. |

Data Validation Reason Codes

6 Method Blank Contamination.

37 Associated error was greater than 50 percent of the sample result.