



2609 North River Road Port Allen, Louisiana 70767

1 (800) 401-4277 FAX (225) 381-2996

American Radiation Services, Inc.

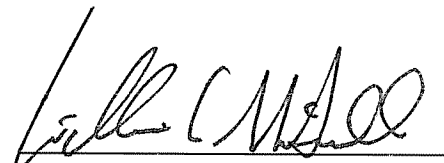
Laboratory Analysis Report

Prepared For :

**Enercon Services
Gerry Williams
4115 William Penn Highway
Murrysville, PA 15666**

**Phone: 724-733-8711
FAX: 724-733-4630**


Quality Assurance Review


Technical Review

Notes: American Radiation Services, Inc. assumes no liability for the use or interpretation of any analytical results provided other than the cost of the analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Contact Person: Questions regarding this analytical report should be addressed to William McDowell, Phd at 2609 North River Road, Port Allen, Louisiana. Phone: 225.381.2991 Fax: 225.381.2996



ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-01A

ARS Sample ID: ARS042065-7607

Date Sampled: 12/16/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

| Analysis Description | Analysis Results | Analysis Error +/- 2 Sigma | MDC | Analysis Units | Analysis Test Method | Analysis Date / Time | Analysis Technician |
|----------------------|------------------|----------------------------|-------|----------------|----------------------|----------------------|---------------------|
| TH-232 | 0.883 | 0.2433 | 0.109 | pCi/g | EPA 901.1M | 12/23/04 16:18 | BJD |
| TH-228 | 0.776 | 0.1953 | 0.094 | pCi/g | EPA 901.1M | 12/23/04 16:18 | BJD |
| U-238 | 2.340 | 1.2459 | 0.999 | pCi/g | EPA 901.1M | 12/23/04 16:18 | BJD |

Notes:

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-01B

ARS Sample ID: ARS042065-7608

Date Sampled: 12/16/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

| Analysis Description | Analysis Results | Analysis Error +/- 2 Sigma | MDC | Analysis Units | Analysis Test Method | Analysis Date / Time | Analysis Technician |
|----------------------|------------------|----------------------------|-------|----------------|----------------------|----------------------|---------------------|
| TH-232 | 0.477 | 0.9160 | 0.885 | pCi/g | EPA 901.1M | 12/23/04 12:58 | EAM |
| TH-228 | 1.090 | 0.3570 | 0.407 | pCi/g | EPA 901.1M | 12/23/04 12:58 | EAM |
| U-238 | 3.440 | 4.4900 | 3.870 | pCi/g | EPA 901.1M | 12/23/04 12:58 | EAM |

Notes:

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-02

ARS Sample ID: ARS042065-7609

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

| Analysis Description | Analysis Results | Analysis Error +/- 2 Sigma | MDC | Analysis Units | Analysis Test Method | Analysis Date / Time | Analysis Technician |
|----------------------|------------------|----------------------------|--------|----------------|----------------------|----------------------|---------------------|
| TH-232 | 0.227 | 0.1860 | 0.108 | pCi/g | EPA 901.1M | 12/23/04 15:46 | BJD |
| TH-228 | 0.310 | 0.1366 | 0.0716 | pCi/g | EPA 901.1M | 12/23/04 15:46 | BJD |
| U-238 | -0.363 | -1.952 | 0.829 | pCi/g | EPA 901.1M | 12/23/04 15:46 | BJD |

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-03

ARS Sample ID: ARS042065-7610

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

| Analysis Description | Analysis Results | Analysis Error +/- 2 Sigma | MDC | Analysis Units | Analysis Test Method | Analysis Date / Time | Analysis Technician |
|----------------------|------------------|----------------------------|-------|----------------|----------------------|----------------------|---------------------|
| TH-232 | 1.010 | 0.7300 | 0.900 | pCi/g | EPA 901.1M | 12/23/04 17:46 | BJD |
| TH-228 | 0.361 | 0.1830 | 0.289 | pCi/g | EPA 901.1M | 12/23/04 17:46 | BJD |
| U-238 | 0.480 | 5.020 | 3.990 | pCi/g | EPA 901.1M | 12/23/04 17:46 | BJD |

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-06B

ARS Sample ID: ARS042065-7614

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

| Analysis Description | Analysis Results | Analysis Error +/- 2 Sigma | MDC | Analysis Units | Analysis Test Method | Analysis Date / Time | Analysis Technician |
|----------------------|------------------|----------------------------|-------|----------------|----------------------|----------------------|---------------------|
| TH-232 | 1.170 | 0.5390 | 0.869 | pCi/g | EPA 901.1M | 12/23/04 11:43 | EAM |
| TH-228 | 1.100 | 0.0306 | 0.403 | pCi/g | EPA 901.1M | 12/23/04 11:43 | EAM |
| U-238 | 4.120 | 0.0447 | 0.402 | pCi/g | EPA 901.1M | 12/23/04 11:43 | EAM |

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-07

ARS Sample ID: ARS042065-7615

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

| Analysis Description | Analysis Results | Analysis Error +/- 2 Sigma | MDC | Analysis Units | Analysis Test Method | Analysis Date / Time | Analysis Technician |
|----------------------|------------------|----------------------------|-------|----------------|----------------------|----------------------|---------------------|
| TH-232 | 1.124 | 0.2619 | 0.109 | pCi/g | EPA 901.1M | 12/23/04 14:26 | EAM |
| TH-228 | 1.358 | 0.2243 | 0.068 | pCi/g | EPA 901.1M | 12/23/04 14:26 | EAM |
| U-238 | 0.000 | 0.000 | 1.190 | pCi/g | EPA 901.1M | 12/23/04 14:26 | EAM |

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ARS Tracking Number: ARS042065

Request or PO Number: NA

Client ID: HMI 04-08

ARS Sample ID: ARS042065-7616

Date Sampled: 12/14/04

Date Received: 12/20/04

Time Sampled: NA

Time Received: 1032

Type of Sample: Solid

Date of Report: 12/27/04

| Analysis Description | Analysis Results | Analysis Error +/- 2 Sigma | MDC | Analysis Units | Analysis Test Method | Analysis Date / Time | Analysis Technician |
|----------------------|------------------|----------------------------|-------|----------------|----------------------|----------------------|---------------------|
| TH-232 | 3.321 | 0.4613 | 0.168 | pCi/g | EPA 901.1M | 12/23/04 13:54 | EAM |
| TH-228 | 3.750 | 0.3763 | 0.111 | pCi/g | EPA 901.1M | 12/23/04 13:54 | EAM |
| U-238 | 2.995 | 1.6946 | 1.600 | pCi/g | EPA 901.1M | 12/23/04 13:54 | EAM |

Notes:

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Notes:

Comments:

- 1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
- 2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
- 3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
- 4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B.
- 5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than the actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
- 6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only).
- 7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only).
- 8.0) All gamma spectroscopy was performed utilizing high purity germanium detectors (HPGe).

Method References:

- 1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurements of Radioactivity in Drinking Water, August 1980.
- 2.0) Standard Methods for Examination of Water and Waste Water, 18th, 1992.
- 3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995).
- 4.0) EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
- 5.0) HASL 300

Definitions:

- | | |
|----------------------|--|
| 1.0) BDL | Analyte not detected because the value was below the detection limit. |
| 2.0) ND | Not detected above the detection limit. |
| 3.0) Detection Limit | The minimum amount of the analyte that ARS can detect utilizing the specific analysis. |
| 4.0) B | Method Blank |
| 5.0) D | Method Duplicate |
| 6.0) MS | Matrix Spike |
| 7.0) S | Spike |
| 8.0) RS | Reference Spike |
| 9.0) *SC | Subcontracted out to another qualified laboratory |
| 10.0) NR | Not Referenced |
| 11.0) N/A | Not Applicable |

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Client: Emercon Services

3-Day Lat

Date: 12/20/04

Address: 4115 William Penn Hwy.
Murrysville, PA 15668

Phone #: 724-733-8711

Purchase Order #: _____

Fax #: 724-733-4430

Job #: _____

Contact: Gerry Williams

| Date | Time | Sample ID. | Type | # of Containers | Radiochemistry | | | | | | | Gamma Spectroscopy | | | | |
|----------|------|------------|------|-----------------|----------------|------|--------|--------|--------------|-----------|------------|--------------------|---------|----------------|-------------|-------|
| | | | | | Gross | | Ra-226 | Ra-228 | Total Radium | Sr89/Sr90 | Nat. Uran. | Am/Pu/Th/U | Fission | Natural (Norm) | Total Gamma | Other |
| | | | | | Alpha | Beta | | | | | | | | | | |
| 12/16/04 | AK | HMI 04-01A | S | 1 | | | | | | | | | ✓ | | | |
| 12/16/04 | | 04-01B | | | | | | | | | | | ✓ | | | |
| 12/14/04 | | 04-02 | | | | | | | | | | | ✓ | | | |
| 12/14/04 | | 04-03 | | | | | | | | | | | ✓ | | | |
| 12/14/04 | | 04-04 | | | | | | | | | | | ✓ | | | |
| 12/14/04 | | 04-05 | | | | | | | | | | | ✓ | | | |
| 12/14/04 | | 04-06A | | | | | | | | | | | ✓ | | | |
| 12/14/04 | | 04-06B | | | | | | | | | | | ✓ | | | |
| 12/14/04 | | 04-07 | | | | | | | | | | | ✓ | | | |
| 12/14/04 | | 04-08 | | | | | | | | | | | ✓ | | | |

| Relinquished By: (Signature) | Date | Time | Received By: (Signature) | Date | Time |
|------------------------------|------|------|--------------------------|-----------------|-------------|
| | | | <u>Elyse McQuinn</u> | <u>12/20/04</u> | <u>1032</u> |
| | | | | | |
| | | | | | |

Client: Emercon Services

3-Day tot

Date: 12/20/04

Address: 4115 William Penn Hwy
Murrysville, PA 15148
 6 AM
 12/20/04

Phone #: 724-733-8711
 Fax #: _____

Purchase Order #: _____

Job #: _____
 Contact: Perry Williams

| Date | Time | Sample ID. | Type | # of Containers | Radiochemistry | | | | | | | Gamma Spectroscopy | | | | | | | |
|----------|------|------------|------|-----------------|----------------|------|--------|--------|--------------|-----------|------------|--------------------|---------|----------------|-------------|-------|--|--|--|
| | | | | | Gross | | Ra-226 | Ra-228 | Total Radium | Sr89/Sr90 | Nat. Uran. | Am/Pu/Th/U | Fission | Natural (Norm) | Total Gamma | Other | | | |
| | | | | | Alpha | Beta | 226 | 228 | | | | | | | | | | | |
| 12/16/04 | NA | HMI 04-09A | S | 1 | | | | | | | | | | | | | | | |
| 12/16/04 | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | |
| 12/16/04 | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | |

| Relinquished By: (Signature) | Date | Time | Received By: (Signature) | Date | Time |
|------------------------------|------|------|--------------------------|-----------------|-------------|
| | | | <u>Elizabeth McHenry</u> | <u>12/20/04</u> | <u>1032</u> |
| | | | | | |
| | | | | | |

Select Departing Flight - Providence, RI to Pittsburgh, PA (Thursday, December 01 2005)

Depart Time: Depart Date:

These fares do not include government fees and taxes.

More Fares → → → → →

| Flights | Departs | Arrives | Stops | Refundable Anytime \$158 | Special Fares \$153 | Restricted Fares Unavailable | Advance Purchase Unavailable | Fun Fa Unavaila |
|-----------|---------|---------|-------|--------------------------|-----------------------|------------------------------|------------------------------|-----------------|
| 2492/2504 | 7:45am | 1:15pm | PHL/1 | <input type="radio"/> | <input type="radio"/> | Unavailable | Unavailable | Unavaila |
| 1287/1531 | 10:05am | 4:40pm | PHL/1 | <input type="radio"/> | <input type="radio"/> | Unavailable | Unavailable | Unavaila |
| 2160/641 | 1:50pm | 5:45pm | PHL/1 | <input type="radio"/> | <input type="radio"/> | Unavailable | Unavailable | Unavaila |
| 2161/199 | 5:20pm | 8:55pm | PHL/1 | <input type="radio"/> | <input type="radio"/> | Unavailable | Unavailable | Unavaila |

Select Returning Flight - Pittsburgh, PA to Providence, RI (Friday, December 09 2005)

Return Time: Return Date:

These fares do not include government fees and taxes.

More Fares → → → → →

| Flights | Departs | Arrives | Stops | Refundable Anytime \$158 | Special Fares \$153 | Restricted Fares \$149 | Advance Purchase \$129 | Fun Fa \$105 |
|-----------|---------|---------|-------|--------------------------|-----------------------|------------------------|------------------------|-----------------------|
| 1867/2538 | 6:45am | 11:20am | PHL/1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 1968/863 | 10:20am | 4:25pm | PHL/1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 803/2332 | 2:50pm | 6:15pm | PHL/1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2174/1884 | 5:10pm | 10:30pm | PHL/1 | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

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- For information on a specific flight's ontime performance please call 1-800-IFLYSWA (1-800-435-9792).
- All fares and fare ranges listed are per person for each way of travel.
- Unavailable indicates either the flight is sold out/full or the fare is not valid for the travel dates you selected.
- N/S = Nonstop; Numeral indicates total number of stops on same plane (direct) flights.
- City code with a numeral indicates city where change of plane occurs and the number of stops including the connect

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