



**Portland General Electric Company**

Trojan Nuclear Plant  
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February 25, 2005

VPN-006-2005

Trojan Nuclear Plant  
Docket 50-344  
License No. NPF-1

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

PGE-1065-2004, "Trojan Nuclear Plant Annual Radioactive Effluent Release Report for 2004"

In accordance with 10 CFR 50.36a and PGE-8010, Trojan Nuclear Plant Quality Assurance Program, Appendix C, Section 1.5.1.3, the enclosure to this letter is Portland General Electric Company's Trojan Nuclear Plant Annual Radioactive Effluent Release Report for 2004. If there are any questions concerning this report, please contact Mr. Jerry Reid at (503) 556-6474.

Sincerely,

Stephen M. Quennoz  
Vice President, Generation

Enclosure

c: Director, NRC Region IV, DNMS  
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D. Stewart-Smith, ODOE  
A. Bless, ODOE

IE48  
NMSS01

**PGE-1065-2004**

# **Trojan Nuclear Plant**

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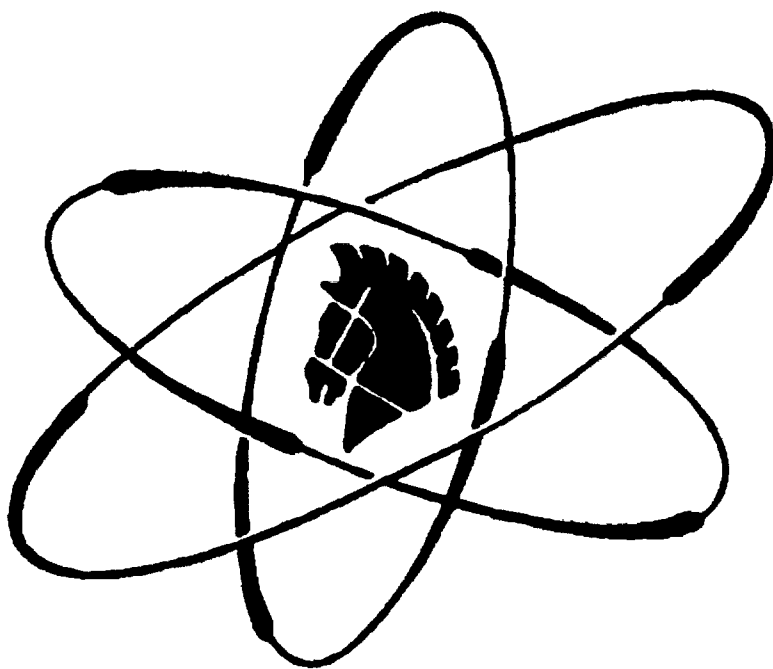
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**Annual Radioactive Effluent Release Report for 2004**

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**PORTLAND GENERAL ELECTRIC COMPANY**



PGE-1065-2004

TROJAN NUCLEAR PLANT  
ANNUAL RADIOACTIVE  
EFFLUENT RELEASE REPORT

FOR 2004

Docket 50-344  
License No. NPF-1

PORTLAND GENERAL ELECTRIC COMPANY  
121 S. W. Salmon Street  
Portland, Oregon 97204

TROJAN NUCLEAR PLANT

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT FOR 2004

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## SUMMARY

The Trojan Nuclear Plant Annual Radioactive Effluent Release Report for 2004 is submitted in accordance with 10 CFR 50.36a, and PGE-8010, Trojan Nuclear Plant Quality Assurance Program, Appendix C, Section 1.5.1.3. The report is divided into six sections: (1) effluent and waste disposal report; (2) offsite radiation doses; (3) meteorological data; (4) changes to the Offsite Dose Calculation Manual (ODCM); (5) assessment of doses within the unrestricted area boundary; and (6) direct radiation doses from the facility.

### Requirement

PGE-8010, Trojan Nuclear Plant Quality Assurance Program, Appendix C, Section 1.5.1.3, "Annual Radioactive Effluent Release Report," requires:

*The Annual Radioactive Effluent Release Report covering the activities of the unit shall be submitted in accordance with 10 CFR 50.36a. The report shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit. The material provided shall be consistent with the objectives outlined in the ODCM and Process Control Program.*

Offsite Dose Calculation Manual, Control 3.1.2 requires:

*The radioactive gaseous effluent sampling equipment channels...shall be OPERABLE to ensure that the limits of Control 3.2.2.1 are not exceeded.*

*...With the inoperable channels not returned to OPERABLE status within 30 days, identify the cause of the inoperable channels in the annual Radioactive Effluent Release Report in lieu of any other report.*

Offsite Dose Calculation Manual, Control 4.1.2 requires:

*The Annual Radioactive Effluent Release Report shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit as outlined in Regulatory Guide 1.21 (Rev. 1), "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," with data summarized on a quarterly basis following the format of Appendix B thereof.*

*The Annual Radioactive Effluent Release Report shall include an assessment of the radiation doses from radioactive effluents to MEMBERS OF THE PUBLIC due to their activities in UNRESTRICTED AREAS during the report period. All assumptions used in making these assessments (e.g., specific activity, exposure time and location) shall be included in these reports.*

*The Annual Radioactive Effluent Release Report shall include a copy of all licensee event reports required by 10 CFR 50.73(a)(2)(viii).*

*The Annual Radioactive Effluent Release Report shall include an assessment of radiation doses from the radioactive liquid and gaseous effluents released from the unit as outlined in Regulatory Guide 1.21. Exceptions to Regulatory Guide 1.21 are documented in Table 1-1 of PGE-1061, Trojan Nuclear Plant Defueled Safety Analysis Report and License Termination Plan (PGE-1078). The assessment of radiation doses shall be performed in accordance with Sections 5 and 6 of the ODCM.*

10 CFR 50.36a(a)(2) requires:

*Each licensee shall submit a report to the Commission annually that specifies the quantity of each of the principal radionuclides released to unrestricted areas in liquid and in gaseous effluents during the previous 12 months, including any other information as may be required by the Commission to estimate maximum potential annual radiation doses to the public resulting from effluent releases. The report must be submitted as specified in §50.4, and the time between submission of the reports must be no longer than 12 months. If quantities of radioactive materials released during the reporting period are significantly above design objectives, the report must cover this specifically. On the basis of these reports and any additional information the Commission may obtain from the licensee or others, the Commission may require the licensee to take action as the Commission deems appropriate.*

#### Report

Data for the period January 1, 2004, through December 31, 2004, have been included.

No licensee event reports required by 10 CFR 50.73(a)(2)(viii) were submitted during 2004.

Gaseous effluents are summarized in Tables 1-6, 1-8, 1-9, and 1-10. The control limits for gaseous effluents are found in Table 1-1. Effluent concentration values for gaseous effluents are not used in effluent calculations at Trojan. Measurement methods and errors associated with the measurements for gaseous effluents are found in Tables 1-5 and 1-7, respectively. Gaseous effluent lower levels of detection are found in Table 1-11.

Liquid effluents are summarized in Tables 1-6 and 1-12 and 1-13. The control limits for liquid effluents are found in Table 1-3 and the effluent concentration values for liquid effluents are found in Table 1-4. Measurement methods and errors associated with the measurements for liquid effluents are found in Tables 1-5 and 1-7, respectively. Liquid effluent lower levels of detection are found in Table 1-14.

Solid waste and irradiated fuel shipments are listed in Table 1-15.

Offsite radiation doses from liquid effluents are listed in Tables 2-3 and 2-4 through 2-7. Parameters used to calculate offsite doses are found in Table 2-2.

Offsite radiation doses from gaseous effluents are listed in Tables 2-8 through 2-58. Parameters used to calculate offsite doses are found in Table 2-1. Population doses from gaseous effluents are summarized by pathway in Tables 2-59 through 2-62.

The calculation assumptions for onsite radiation doses are presented in Table 5-1 and onsite radiation doses are listed in Table 5-2 and Section 6.

## 1. EFFLUENT AND WASTE DISPOSAL REPORT

This section contains a summary of the liquid and gaseous release limits; a list of the effluent concentration values of the nuclides released; a summary of batch and abnormal release data; a summary of total liquid and gaseous releases; listings of nuclides released classified by pathway, gaseous or liquid, and type, continuous or batch; and a summary of solid radioactive waste shipments. This section represents releases during the period January 1, 2004, through December 31, 2004. The information for January 1, 2004, through December 31, 2004, is presented in Tables 1-1 through 1-15.

The "MDA" notation used in the following data tables indicates that no detectable activity was found when samples were analyzed using counting techniques which ensure compliance with the "Lower Limit of Detection" (LLD) values of ODCM Tables 3.2.1.1-1 and 3.2.2.1-1. The referenced LLD specifications are not used as limiting values for reporting activity; all measurable activity is reported. Gamma emitting nuclides, nuclides with measurable activity, together with those nuclides specified in ODCM Tables 3.2.1.1-1 and 3.2.2.1-1 are reported.

### Liquids

There were 26 discharges with no abnormal releases during 2004. The last liquid discharge from the site was on October 7, 2004.

### Gaseous

The requirement to monitor gaseous releases using PRM-2 was removed from the ODCM with Amendment 23 (ref. SMQ-006-2003, S. M. Quennoz, Portland General Electric Company, to D. Stewart-Smith, Oregon Department of Energy, dated September 4, 2003). There is no longer a source of radioactive noble gases in the Auxiliary/Fuel Building since the spent fuel was transferred to the ISFSI. The remaining monitoring of tritium and particulates is via manual samples taken as currently required by the ODCM. Exhaust from the Auxiliary/Fuel Building was secured on October 7, 2004.

No unplanned gaseous releases occurred during 2004.

The following term is used:

$\bar{R}_i$  = Average dose factor for radionuclides in particulate form (gaseous effluents) at the controlling exposure locations



**TABLE 1-1**

## SUPPLEMENTAL INFORMATION

January 1, 2004, through December 31, 2004

**CONTROL LIMITS**

<u>Fission and Activation Gas Release Rate Limits</u>	<u>Unit</u>	<u>First Quarter<sup>1</sup></u>	<u>Second Quarter<sup>1</sup></u>	<u>Third Quarter<sup>1</sup></u>	<u>Fourth Quarter<sup>1</sup></u>
1. ODCM 3.2.2.1, Instantaneous					
$Q_{TV} \leq \frac{1}{2.0\overline{K}_v}$	Ci/sec	N/A	N/A	N/A	N/A
$Q_{TV} \leq \frac{1}{0.33(\overline{L}_v + 1.1\overline{N}_v)}$	Ci/sec	N/A	N/A	N/A	N/A
2. ODCM 3.2.2.2, Quarterly Average					
$Q_{TV} < \frac{1}{50\overline{N}_v}$	Ci/sec	N/A	N/A	N/A	N/A
$Q_{TV} < \frac{1}{25\overline{M}_v}$	Ci/sec	N/A	N/A	N/A	N/A
3. ODCM 3.2.2.4 , Quarterly Average Requiring Use of the Gaseous Radwaste Treatment System					
$Q_{TV} < \frac{1}{100\overline{N}_v}$	Ci/sec	N/A	N/A	N/A	N/A
$Q_{TV} < \frac{1}{50\overline{M}_v}$	Ci/sec	N/A	N/A	N/A	N/A

<sup>1</sup> Control limits for fission and activation gaseous releases no longer apply. See ODCM Amendment 23.

**TABLE 1-2**

**SUPPLEMENTAL INFORMATION**

January 1, 2004, through December 31, 2004

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**CONTROL LIMITS**

<u>Gaseous Tritium, and Particulates</u> <u>With &gt; 8 Day T1/2 Limits</u>	<u>Unit</u>	<u>First</u> <u>Quarter</u>	<u>Second</u> <u>Quarter</u>	<u>Third</u> <u>Quarter</u>	<u>Fourth</u> <u>Quarter</u>
1. ODCM 3.2.2.1, Instantaneous  $Q_v \leq \frac{1}{0.67R_i}$	Ci/sec	1.61E-8	1.61E-8	2.17E-8	1.61E-8
2. ODCM 3.2.2.3, Quarterly Average  $Q_v < \frac{1}{100R_i}$	Ci/sec	1.08E-10	1.08E-10	1.45E-10	1.08E-10
3. ODCM 3.2.2.4, Quarterly Average Requiring Use of the Ventilation Exhaust Treatment System  $Q_v < \frac{1}{200R_i}$	Ci/sec	5.40E-11	5.40E-11	7.26E-11	5.40E-11

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**TABLE 1-3**

**SUPPLEMENTAL INFORMATION**

January 1, 2004, through December 31, 2004

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**CONTROL LIMITS**

- |    |  |   |
|----|--|---|
| 1. | ODCM 3.2.1.1<br>Instantaneous  | Instantaneous discharge concentrations less than the effluent concentration values (ECVs) listed in 10 CFR Part 20, Appendix B, Table 2, Column 2.  |
| 2. | ODCM 3.2.1.2<br>Quarterly Average  | Gross release limit of 2.5 Ci per quarter excluding tritium and dissolved noble gases. If this limit is exceeded, cumulative dose due to liquid effluents will be limited to 1.5 mrem to the whole body and to 2.5 mrem to any organ, using isotope specific methodology in the Plant Offsite Dose Calculation Manual (ODCM).   |
| 3. | ODCM 3.2.1.3<br>Quarterly Average<br>Requiring Use of the Liquid<br>Radwaste Treatment<br>System | The liquid radwaste treatment system shall be maintained and used when activity discharged (excluding tritium and dissolved noble gases) would exceed 1.25 Ci/Qtr.  |
| 4. | Tech. Spec. 5.7.2.6 <sup>1</sup><br>Storage Tank Radioactivity<br>Limit                          | ...the quantity of radioactivity contained in all outdoor liquid radwaste tanks that are not surrounded by liners, dikes, or walls capable of holding the tanks' contents and that do not have tank overflows and surrounding area drains connected to the liquid radwaste treatment system is less than limits of 10 CFR 20, Appendix B at the nearest potable water supply and the nearest surface water supply in an unrestricted area, in the event of an uncontrolled release of the tanks' contents. For temporary storage tanks a limit of 10 curies, excluding tritium and dissolved or entrained noble gases, may be used... |

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<sup>1</sup>This Tech. Spec. limit was relocated from the ODCM to PGE-8010, Nuclear Quality Assurance Program, Appendix C, Section 1.4.2.6, in Revision 26 to PGE-8010.

**TABLE 1-4**

**SUPPLEMENTAL INFORMATION**

January 1, 2004, through December 31, 2004

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**EFFLUENT CONCENTRATION VALUES (ECVs)**

**Liquid**

(10 CFR 20, Appendix B, Table 2, Col. 2)

<u>Isotope</u>	<u>ECV</u> <u>(<math>\mu</math>Ci/cc)</u>	<u>Isotope</u>	<u>ECV</u> <u>(<math>\mu</math>Ci/cc)</u>
Tritium	1 x 10 <sup>-3</sup>	Cesium 134	9 x 10 <sup>-7</sup>
Iron 55	1 x 10 <sup>-4</sup>	Cesium 137	1 x 10 <sup>-6</sup>
Cobalt 57	6 x 10 <sup>-5</sup>	Cerium 144	3 x 10 <sup>-6</sup>
Cobalt 60	3 x 10 <sup>-6</sup>	Europium 152	1 x 10 <sup>-5</sup>
Strontium 90	5 x 10 <sup>-7</sup>	Europium 154	7 x 10 <sup>-6</sup>
Niobium 94	1 x 10 <sup>-5</sup>	Europium 155	5 x 10 <sup>-5</sup>
Antimony 125	3 x 10 <sup>-5</sup>	Americium 241	2 x 10 <sup>-8</sup>
		Alpha	2 x 10 <sup>-9</sup>

**Gaseous**

Gaseous ECVs are not used in effluent calculations at Trojan.

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**TABLE 1-5**

**SUPPLEMENTAL INFORMATION**

January 1, 2004, through December 31, 2004

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**AVERAGE ENERGY**

Effluent release limits are not based upon  $\bar{E}$ , hence, reporting  $\bar{E}$  is not required.

**MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY**

**Gaseous Releases**

**Particulates:** Composite filter samples are analyzed by gamma spectroscopy to determine the concentration of particulate isotopes. Composite samples are analyzed for alpha-emitting isotopes by counting with a gas flow proportional counter.

**Liquid Releases**

**Fission and Activation Products:** Gamma spectrometric analysis of each batch is performed. Monthly and quarterly composites are prepared for batch releases for specified activity determinations.

**Tritium:** Samples from each batch are distilled and deionized as necessary to remove contamination and counted by liquid scintillation techniques.

**Dissolved and Entrained Gases:** There are no longer any dissolved or entrained gases in the liquid releases at Trojan.

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**TABLE 1-6**

**SUPPLEMENTAL INFORMATION**

January 1, 2004, through December 31, 2004

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<b><u>BATCH RELEASES</u></b>	<b><u>Unit</u></b>	<b><u>1-1-04 to 6-30-04</u></b>		<b><u>7-1-04 to 12-31-04</u></b>	
		<b><u>Liquid</u></b>	<b><u>Gaseous</u></b>	<b><u>Liquid</u></b>	<b><u>Gaseous</u></b>
Number of Batch Releases		15	0	11	0
Total time period for Batch Releases	Hours	5.1	NA	10.9	NA
Maximum time period for Batch Releases	Hours	0.9	NA	2.3	NA
Average time period for Batch Releases	Hours	0.3	NA	1.0	NA
Minimum time period for Batch Releases	Hours	0.2	NA	0.2	NA
Average dilution flow during Batch Releases	GPM	3844	NA	0	NA
<b><u>ABNORMAL RELEASES</u></b>					
Number of Abnormal Releases		0	0	0	0
Total Activity Released	Ci	0	0	0	0

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**TABLE 1-7**

**SUPPLEMENTAL INFORMATION**

January 1, 2004 through December 31, 2004

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**ESTIMATION OF TOTAL PERCENT ERROR**

The estimated total error is calculated as follows:

$$\text{Total Percent Error} = (E_1^2 + E_2^2 + E_3^2 + \dots + E_n^2)^{1/2}$$

Where  $E_n$  = Percent error associated with each contributing parameter.

The following values (percent) were used for error calculations:

**GASEOUS EFFLUENTS**

	<u>Particulates</u>
Sample Counting Error	25
Counting System Calibration Error	10
Counting System Source Error	5
Temperature/Volume Correction Error	NA
Process Flow Measuring Device	10
Sample Flow Measuring Device	10
Plateout Error	10

**LIQUID EFFLUENTS**

	<u>Fission &amp; Act. Products</u>	<u>Tritium</u>	<u>Gross Alpha</u>
Sample Counting Error	25	25	25
Counting System Calibration Error	10	10	10
Counting System Source Error	5	5	5
Process Flow Measuring Device	10	10	10
Sample Flow Measuring Device	10	10	10

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**TABLE 1-8**

**GASEOUS EFFLUENTS  
SUMMATION OF RELEASES**

January 1, 2004, through December 31, 2004

	<u>Unit</u>	<u>First Quarter<sup>1</sup></u>	<u>Second Quarter<sup>1</sup></u>	<u>Third Quarter<sup>1</sup></u>	<u>Fourth Quarter<sup>1</sup></u>	<u>Estimated Error (%)</u>
<u>FISSION AND ACTIVATION GASES</u>						
Total Activity Released	Ci	N/A	N/A	N/A	N/A	N/A
Average Release Rate for Quarter	μCi/sec	N/A	N/A	N/A	N/A	
Percent of Limit:						
ODCM 3.2.2.1.a - Instantaneous	%	N/A	N/A	N/A	N/A	
ODCM 3.2.2.2.a - Quarterly Average	%	N/A	N/A	N/A	N/A	
ODCM 3.2.2.4.a - Quarterly Average Requiring Processing	%	N/A	N/A	N/A	N/A	
<u>PARTICULATES</u>						
Total with Half-lives >8 days	Ci	MDA	MDA	1.98E-11	1.34E-11	±3.2E+1
Average Release Rate for Quarter	μCi/sec	N/A	N/A	1.49E-11	4.03E-11	
Total Gross Alpha Released	Ci	MDA	MDA	MDA	MDA	

<sup>1</sup> ODCM Control Limits for fission and activation gaseous releases no longer apply. Limits were deleted in Amendment 23.



**TABLE 1-8**

**GASEOUS EFFLUENTS  
SUMMATION OF RELEASES**

January 1, 2004, through December 31, 2004

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	<u>Unit</u>	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>	<u>Estimated Error (%)</u>
<u>TRITIUM</u>						
Total Released	Ci	N/A	N/A	N/A	N/A	N/A
Average Release Rate for Quarter	$\mu\text{Ci}/\text{sec}$	N/A	N/A	N/A	N/A	
<u>PARTICULATES WITH &gt; 8 DAY T1/2</u>						
Total Released	Ci	MDA	MDA	1.98E-11	1.34E-11	$\pm 3.2\text{E}+1$
Average Release Rate for Quarter	$\mu\text{Ci}/\text{sec}$	N/A	N/A	1.49E-11	4.03E-11	
Percent of Limit:						
ODCM 3.2.2.1 Instantaneous	%	0.00E+0	0.00E+0	6.88E-8	2.50E-7	
ODCM 3.2.2.3 Quarterly Average	%	0.00E+0	0.00E+0	1.03E-5	3.73E-5	
ODCM 3.2.2.4 Quarterly Average Requiring Processing	%	0.00E+0	0.00E+0	2.05E-5	7.46E-5	

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TABLE 1-9

Sheet 1 of 2

GASEOUS EFFLUENTS  
GROUND LEVEL RELEASES

January 1, 2004, through December 31, 2004

NUCLIDES RELEASED

<u>Fission Gases</u>	<u>Unit</u>	<u>Continuous Mode<sup>2</sup></u>				<u>Batch Mode<sup>1</sup></u>
		<u>First Quarter</u>	<u>Second Quarter</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>	
Krypton 85	Ci	0.00E+0	0.00E+0	0.00E+0	0.00E+0	N/A
TOTAL FOR QUARTER	Ci	0.00E+0	0.00E+0	0.00E+0	0.00E+0	N/A

<sup>1</sup> Information is for all four quarters of 2004.

<sup>2</sup> Fission gases were not released in 2004. Spent fuel was moved to the ISFSI in 2003.

**TABLE 1-9**

**GASEOUS EFFLUENTS  
GROUND LEVEL RELEASES**

January 1, 2004, through December 31, 2004

<u>NUCLIDES RELEASED</u>		<u>Continuous Mode</u>				<u>Batch Mode<sup>1</sup></u>
<u>Particulates &gt; 8 Day T1/2</u>	<u>Unit</u>	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>	
Manganese 54	Ci	MDA	MDA	MDA	MDA	N/A
Cobalt 57	Ci	MDA	MDA	MDA	MDA	N/A
Cobalt 60	Ci	MDA	MDA	MDA	MDA	N/A
Strontium 90	Ci	MDA	MDA	1.43E-11	1.34E-11	N/A
Cesium 134	Ci	MDA	MDA	MDA	MDA	N/A
Cesium 137	Ci	MDA	MDA	5.49E-12	MDA	N/A
Cerium 144	Ci	MDA	MDA	MDA	MDA	N/A
<b>TOTAL FOR QUARTER</b>	Ci	MDA	MDA	1.98E-11	1.34E-11	N/A

<sup>1</sup> Information is for all four quarters of 2004.

**TABLE 1-10**

**GASEOUS EFFLUENTS  
ELEVATED RELEASES**

January 1, 2004, through December 31, 2004

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No Elevated Release Points

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**TABLE 1-11**

**GASEOUS EFFLUENTS  
LOWER LEVEL OF DETECTION**

January 1, 2004, through December 31, 2004

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<u>NUCLIDE</u>	<u>UNIT</u>	<u>CONTINUOUS RELEASE</u>
Cobalt 60	$\mu\text{Ci/ml}$	1.00E-11
Strontium 90	$\mu\text{Ci/ml}$	1.00E-11
Cesium 134	$\mu\text{Ci/ml}$	1.00E-11
Cesium 137	$\mu\text{Ci/ml}$	1.00E-11
Gross Alpha	$\mu\text{Ci/ml}$	1.00E-11

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**TABLE 1-12**LIQUID EFFLUENTS  
SUMMATION OF RELEASES

January 1, 2004, through December 31, 2004

	<u>Unit</u>	<u>First Quarter</u>	<u>Second Quarter</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>	<u>Estimated Error (%)</u>
<u>FISSION AND ACTIVATION PRODUCTS</u>						
Total Activity Released (excluding gases, tritium, and alpha)	Ci	1.12E-4	5.66E-5	2.60E-5	1.58E-6	±3.1E+1
Average Diluted Concentration	μCi/ml	5.36E-8	2.36E-8	8.93E-6 <sup>1</sup>	3.11E-7 <sup>1</sup>	
Percent of Limit						
ODCM 3.2.1.1 - Instantaneous	%	2.74E+0	8.90E-1	0.00E+0	0.00E+0	
ODCM 3.2.1.2 - Quarterly Limit	%	4.52E-3	2.26E-3	1.04E-3	6.32E-5	
ODCM 3.2.1.3 - Quarterly Limit Requiring Processing	%	9.03E-3	4.53E-3	2.08E-3	1.26E-4	
<u>TRITIUM</u>						
Total Released	Ci	1.45E-3	9.59E-5	0.00E+0	0.00E+0	±3.1E+1
Average Diluted Concentration	μCi/ml	6.93E-7	3.99E-8	0.00E+0	0.00E+0	
Percent of ECV	%	6.93E-2	3.99E-3	0.00E+0	0.00E+0	
<u>GROSS ALPHA RADIOACTIVITY</u>						
Total Activity Released	Ci	4.67E-7	0.00E+0	0.00E+0	0.00E+0	±3.1E+1
<u>UNDILUTED VOLUME OF WASTE RELEASES</u>						
	Liters	1.42E+4	6.30E+3	2.91E+3	5.08E+3	±5.0
<u>VOLUME OF DILUTION WATER</u>						
	Liters	2.10E+6	2.40E+6	0.00E+0	0.00E+0	±1.5E+1

<sup>1</sup> The value is the average total activity concentration. Activity was released without dilution water.

**TABLE 1-13**

**LIQUID EFFLUENTS**

January 1, 2004, through December 31, 2004

**NUCLIDES RELEASED**

	<u>Unit</u>	<u>Continuous Mode</u> <sup>1</sup>	<u>Batch Mode</u>			
			<u>First Quarter</u>	<u>Second Quarter</u>	<u>Third Quarter</u>	<u>Fourth Quarter</u>
Sodium 22	Ci	N/A	MDA	MDA	MDA	MDA
Iron 55	Ci	N/A	4.62E-5	4.62E-5	MDA	MDA
Cobalt 57	Ci	N/A	MDA	MDA	1.55E-8	MDA
Cobalt 60	Ci	N/A	3.02E-4	MDA	1.86E-5	1.58E-6
Strontium 90	Ci	N/A	1.04E-5	1.04E-5	MDA	MDA
Niobium 94	Ci	N/A	1.07E-6	MDA	5.55E-7	MDA
Silver 108m	Ci	N/A	MDA	MDA	MDA	MDA
Antimony 125	Ci	N/A	MDA	MDA	MDA	MDA
Cesium 134	Ci	N/A	MDA	MDA	4.01E-8	MDA
Cesium 137	Ci	N/A	2.46E-5	6.03E-9	6.78E-6	MDA
Cerium 144	Ci	N/A	MDA	MDA	MDA	MDA
Europium 152	Ci	N/A	MDA	MDA	MDA	MDA
Europium 154	Ci	N/A	MDA	MDA	MDA	MDA
Europium 155	Ci	N/A	MDA	MDA	MDA	MDA
Americium 241	Ci	N/A	MDA	MDA	MDA	MDA
Unidentified	Ci	N/A	MDA	MDA	MDA	MDA
<b>TOTAL</b>	<b>Ci</b>	<b>N/A</b>	<b>1.12E-4</b>	<b>5.66E-5</b>	<b>2.60E-5</b>	<b>1.58E-6</b>

<sup>1</sup> Information for all four quarters of 2004.

**TABLE 1-14**

**LIQUID EFFLUENTS  
LOWER LEVEL OF DETECTION**

January 1, 2004, through December 31, 2004

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**LOWER LEVEL OF DETECTION**

<u>NUCLIDE</u>	<u>UNIT</u>	<u>BATCH RELEASE</u>
Tritium	$\mu\text{Ci/ml}$	1.00E-5
Iron 55	$\mu\text{Ci/ml}$	1.00E-6
Cobalt 60	$\mu\text{Ci/ml}$	5.00E-7
Strontium 90	$\mu\text{Ci/ml}$	5.00E-8
Cesium 134	$\mu\text{Ci/ml}$	5.00E-7
Cesium 137	$\mu\text{Ci/ml}$	5.00E-7
Gross Alpha	$\mu\text{Ci/ml}$	1.00E-7

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**TABLE 1-15**

**SOLID WASTE AND IRRADIATED FUEL SHIPMENTS**

January 1, 2004, through December 30, 2004

<u>SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not Irradiated Fuel) - Type of Waste</u>	<u>Activity<sup>1</sup> During 1-1 to 6-30</u>	<u>Volume During 1-1 to 6-30</u>	<u>Activity<sup>1</sup> During 7-1 to 12-30</u>	<u>Volume During 7-1 to 12-30</u>	<u>Estimated<sup>2</sup> Total Error (%)</u>
1. Spent Resin, Filters, Sludges, Evaporator Bottoms, etc.	4.92E-01 Ci	4.35E+00 m <sup>3</sup>	0	0	2.5E+01
2. Dry Compressible Waste, Contaminated Equipment, etc.	5.11E-01 Ci	3.91E+02 m <sup>3</sup>	6.35E-02 Ci	1.34E+02 m <sup>3</sup>	2.5E+01
3. Irradiated Components, Control Rods, etc.	0	0	0	0	
4. Other (Spent Fuel Particles & Cs-137 Sources Encapsulated)	2.68E-01 Ci	2.12E-01 m <sup>2</sup>	1.03E-01 Ci	6.37E-01 m <sup>3</sup>	2.5E+01

ESTIMATE OF MAJOR NUCLIDE DISTRIBUTION BY TYPE OF WASTE

Nuclide

1. See lists in Attachment 1.
2. See lists in Attachment 1.
3. N/A
4. N/A

<sup>1</sup>Note: Activity calculations include all shipments from PGE to U.S. Ecology.

<sup>2</sup>Basis: Instrument inaccuracies (portable and multi-channel analyzer).

TABLE 1-15

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

January 1, 2004, through December 30, 2004

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SOLID WASTE DISPOSITION

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
18 - 1/1/2004 through 6/30/2004	Exclusive Use Truck by Highway	U.S. Ecology, Inc.
5 - 7/1/2004 through 12/30/2004	Exclusive Use Truck by Highway	P.O. Box 638 Richland, WA 99352

IRRADIATED FUEL SHIPMENTS

<u>Number of Shipments</u>	<u>Mode of Transportation</u>	<u>Destination</u>
0	NA	NA

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## 2. OFFSITE RADIATION DOSES

Offsite radiation doses from gaseous and liquid effluents for 2004 are presented in this section. Included are quarterly doses to individuals at locations of maximum exposure and quarterly doses to the 50-mile population. Doses are presented separately for batch and continuous releases from gaseous effluents.

For gaseous effluents, doses were calculated using conservative meteorological data. The highest  $\gamma/Q$  and  $D/Q$  values established for each receptor, from 1976 through 1994, were used to calculate population doses. All other doses due to gaseous effluents were conservatively calculated using meteorological data established for the site boundary.

**TABLE 2-1**

Sheet 1 of 2

**PARAMETERS USED IN CALCULATING DOSES FROM GASEOUS EFFLUENTS  
FIRST AND SECOND HALVES 2004**

Parameter	Value
<b>Accumulation and Decay Times (days)</b>	
Harvest of leafy vegetables to consumption by man	1.0
Harvest of pasture grass to consumption by animals	0.0
Harvest of stored feed to consumption by animals	90.0
Harvest of produce to consumption by man	60.0
Animal butchering to consumption	20.0
Food ingestion by animal to milking	2.0
Accumulation time on ground	5,480.0
<b>Human Consumption Rates (kg/yr)</b>	
Leafy vegetables by adult	64.0
Produce by adult	456.0
Meat by adult	110.0
Milk by adult	310.0
Milk by infant	330.0
<b>Breathing Rates (m<sup>3</sup>/yr)</b>	
Adult	8,000.0
Infant	1,400.0
<b>Animal Consumption Rates (kg/day)</b>	
Animal feed by meat animal	50.0
Animal feed by milk cow	50.0
Animal feed by milk goat	6.0
<b>Exposure Periods During Growing Season (days)</b>	
Leafy vegetables	60.0
Pasture vegetation	30.0
Produce	60.0
Residential Structure Shielding Factor	0.7
Fraction of Particulates Initially Deposited on Leafy Vegetation	0.2
Fraction of Particulates Initially Deposited on Produce	0.2

**TABLE 2-1**

Sheet 2 of 2

**PARAMETERS USED IN CALCULATING DOSES FROM GASEOUS EFFLUENTS**

<u>Parameter</u>	<u>Value</u>
Fraction of Iodine Deposited on Leafy Vegetation	1.0
Fraction of Iodine Deposited on Produce	1.0
Surface Density of Soil for Root Zone (kg/m <sup>2</sup> )	240.0
Field Decay Half Life (days)	14.0
Agricultural Productivity (kg/m <sup>2</sup> )	
Leafy vegetables	2.0
Pasture grass	0.7
Produce	2.0
Period of Long-Term Buildup for Activity in Soil (days)	5,480.0
Fraction of Leafy Vegetables Grown in Garden of Interest	1.0
Fraction of Produce Grown in Garden of Interest	1.0
Fraction of Year Animal Grazes on Pasture	0.5
Fraction of Daily Feed that is Pasture Grass when Animal Grazes	1.0

**TABLE 2-2**

Sheet 1 of 3

**PARAMETERS USED IN CALCULATING DOSES FROM LIQUID EFFLUENTS**

<u>Parameter</u>	<u>Value</u>			
	<u>First Quarter 2004</u>	<u>Second Quarter 2004</u>	<u>Third Quarter 2004</u>	<u>Fourth Quarter 2004</u>
Plant Dilution Flow Rate (gpm)	45	13	0	0
Columbia River Flow Rate (cfs)	176,020	217,177	138,051	148,437
<b>Dilution Factors</b>				
Drinking water	1,760,200	7,239,233	13,805,100	14,843,700
Swimming water	387,244	1,592,631	3,037,122	3,265,614
Aquatic biota	387,244	1,592,631	3,037,122	3,265,614
Shoreline sediment	387,244	1,592,631	3,037,122	3,265,614
Irrigation water	1,760,200	7,239,233	13,805,100	14,843,700
Milk and meat animal water	1,760,200	7,239,233	13,805,100	14,843,700
<b>Decay Times (days)</b>				
Discharge to drinking water	0.70	0.66	0.75	0.73
Discharge to swimming water	0.0	0.0	0.0	0.0
Discharge to aquatic biota consumption	1.0	1.0	1.0	1.0
Discharge to deposition on shoreline sediment	0.0	0.0	0.0	0.0
Discharge to irrigation water withdrawal	0.70	0.66	0.75	0.73
Discharge to milk and meat animal water withdrawal	0.70	0.66	0.75	0.73
Leafy vegetable harvest to consumption by man	1	1	1	1
Produce harvest to consumption by man	60	60	60	60
Stored feed harvest to consumption by animals	90	90	90	90
Pasture grass to consumption by animals	0	0	0	0
Animal butchering to consumption	20	20	20	20
Food and water ingestion by cow/goat to milking	2	2	2	2

**TABLE 2-2**

Sheet 2 of 3

**PARAMETERS USED IN CALCULATING DOSES FROM LIQUID EFFLUENTS**

Parameter	Value			
	First Quarter 2004	Second Quarter 2004	Third Quarter 2004	Fourth Quarter 2004
<b>Accumulation Times (days)</b>				
Shoreline sediment	5,480	5,480	5,480	5,480
Irrigated soil	5,480	5,480	5,480	5,480
Irrigated vegetables	60	60	60	60
Pasture grass	30	30	30	30
<b>Adult Consumption Rates (kg/yr)</b>				
Drinking water	730	730	730	730
Fish	21	21	21	21
Invertebrates (crayfish)	5	5	5	5
Irrigated leafy vegetables	64	64	64	64
Irrigated produce	456	456	456	456
Cow's milk from irrigated pastureland	310	310	310	310
Goat's milk from irrigated pastureland	310	310	310	310
Meat from irrigated pastureland	110	110	110	110
<b>Annual Exposure Times (hr/yr)</b>				
Swimming and boating	12	12	12	12
Shoreline activities	12	12	12	12
Irrigated pasture	2,190	2,190	2,190	2,190
<b>Infant Consumption Rates (kg/yr)</b>				
Drinking water	330	330	330	330
Cow's milk from irrigated pastureland	330	330	330	330
<b>Fraction of Year Animals</b>				
Graze on Pasture	0.5	0.5	0.5	0.5
<b>Fraction of Year Crops are Irrigated</b>				
	0.5	0.5	0.5	0.5
<b>Field (Weathering) Half-Life (days)</b>				
	14	14	14	14
<b>Irrigation Rate (liters/m<sup>2</sup>-hr)</b>				
	0.104	0.104	0.104	0.104
<b>Fractional Concentration of</b>				
Water in Soil (g/g)	0.2	0.2	0.2	0.2

**TABLE 2-2****PARAMETERS USED IN CALCULATING DOSES FROM LIQUID EFFLUENTS**

<u>Parameter</u>	<u>Value</u>			
	<u>First Quarter 2004</u>	<u>Second Quarter 2004</u>	<u>Third Quarter 2004</u>	<u>Fourth Quarter 2004</u>
Fraction of Leafy Vegetables Grown in Garden of Interest	1	1	1	1
Fraction of Produce Grown in Garden of Interest	0.7	0.7	0.7	0.7
Irrigated Soil Self-Shielding Factor	2.5	2.5	2.5	2.5
Fraction of Isotope in Irrigation Water That is Initially Retained by Leafy Vegetables	0.25	0.25	0.25	0.25
Fraction of Isotope in Irrigation Water That is Initially Retained by Produce	0.25	0.25	0.25	0.25
Pasture Grass Yield (kg/m <sup>2</sup> )	0.7	0.7	0.7	0.7
Vegetable Yield (kg/m <sup>2</sup> )	2	2	2	2
Surface Density of Soil (kg/m <sup>2</sup> )	240	240	240	240
<b>Animal Consumption Rates (kg/day)</b>				
Water by milk cow	60	60	60	60
Water by milk goat	8	8	8	8
Water by beef	50	50	50	50
Pasture vegetation by milk cow	50	50	50	50
Pasture vegetation by milk goat	6	6	6	6
Pasture vegetation by beef	50	50	50	50



TABLE 2-3

SUMMARY OF DOSES RESULTING FROM RADIOACTIVE RELEASES  
IN LIQUID WASTES (MREM/YR) [MAXIMUM COMBINATION OF PATHWAYS:  
AQUATIC PLUS IRRIGATION (GOAT OR COW MILK CONSUMPTION)]

2004

FIRST QUARTER 2004

<u>AGE GROUP</u>	<u>WHOLE BODY</u>	<u>SKIN</u>	<u>BONE</u>	<u>GI TRACT</u>	<u>THYROID</u>	<u>LUNG</u>	<u>KIDNEY</u>	<u>LIVER</u>
ADULT	4.41E-5	4.42E-5	8.90E-5	1.92E-5	3.66E-7	5.94E-6	1.66E-5	4.77E-5
TEEN	3.07E-5	3.08E-5	8.98E-5	1.44E-5	5.89E-7	7.56E-6	1.78E-5	5.12E-5
CHILD	2.46E-5	2.46E-5	1.18E-4	5.67E-6	1.61E-7	6.18E-6	1.61E-5	4.92E-5
INFANT	4.13E-6	4.13E-6	2.13E-5	2.76E-7	4.11E-8	1.06E-6	2.55E-6	9.54E-6

SECOND QUARTER 2004

<u>AGE GROUP</u>	<u>WHOLE BODY</u>	<u>SKIN</u>	<u>BONE</u>	<u>GI TRACT</u>	<u>THYROID</u>	<u>LUNG</u>	<u>KIDNEY</u>	<u>LIVER</u>
ADULT	1.07E-6	1.07E-6	4.37E-6	1.52E-7	1.50E-10	2.66E-8	4.64E-10	4.96E-8
TEEN	1.02E-6	1.02E-6	4.16E-6	1.38E-7	1.40E-10	3.28E-8	4.76E-10	5.34E-8
CHILD	1.38E-6	1.38E-6	5.48E-6	8.28E-8	2.28E-10	3.10E-8	5.40E-10	5.71E-8
INFANT	2.76E-7	2.76E-7	1.08E-6	1.39E-8	2.20E-10	1.15E-9	2.70E-10	2.04E-8

**TABLE 2-3**

**SUMMARY OF DOSES RESULTING FROM RADIOACTIVE RELEASES  
IN LIQUID WASTES (MREM/YR) [MAXIMUM COMBINATION OF PATHWAYS:  
AQUATIC PLUS IRRIGATION (GOAT OR COW MILK CONSUMPTION)]**

---

**THIRD QUARTER 2004**

<u>AGE GROUP</u>	<u>WHOLE BODY</u>	<u>SKIN</u>	<u>BONE</u>	<u>GI TRACT</u>	<u>THYROID</u>	<u>LUNG</u>	<u>KIDNEY</u>	<u>LIVER</u>
ADULT	1.19E-6	1.12E-6	1.23E-6	1.13E-6	2.25E-8	2.10E-7	5.83E-7	1.68E-6
TEEN	6.66E-7	6.72E-7	1.36E-6	8.27E-7	3.75E-8	2.71E-7	6.37E-7	1.80E-6
CHILD	2.78E-7	2.79E-7	1.79E-6	3.00E-7	7.83E-9	2.09E-7	5.64E-7	1.72E-6
INFANT	2.61E-8	2.61E-8	2.82E-7	4.08E-9	0.00E+0	3.58E-8	8.85E-8	3.31E-7

**FOURTH QUARTER 2004**

<u>AGE GROUP</u>	<u>WHOLE BODY</u>	<u>SKIN</u>	<u>BONE</u>	<u>GI TRACT</u>	<u>THYROID</u>	<u>LUNG</u>	<u>KIDNEY</u>	<u>LIVER</u>
ADULT	2.43E-9	2.70E-9	1.51E-9	9.34E-9	1.51E-9	1.51E-9	1.51E-9	1.93E-9
TEEN	3.52E-9	3.94E-9	2.53E-9	8.29E-9	2.53E-9	2.53E-9	2.53E-9	2.96E-9
CHILD	1.95E-9	2.04E-9	5.27E-10	3.19E-9	5.27E-10	5.27E-10	5.27E-10	1.01E-9
INFANT	2.75E-10	2.75E-10	0.00E+0	2.77E-10	0.00E+0	0.00E+0	0.00E+0	1.16E-10

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**TABLE 2-4**

FIRST QUARTER 2004  
POPULATION DOSE (50-MILE) FROM  
LIQUID EFFLUENTS  
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AQUATIC		
DRINKING WATER	4.0E-06	2.8E-08
FISH CONSUMPTION	2.4E-03	7.9E-08
INVERTEBRATE CONSUMPTION	2.4E-06	8.7E-11
EXPOSURE TO CONTAMINATED SEDIMENT	4.1E-07	4.1E-07
SWIMMING AND BOATING	1.5E-09	1.5E-09
IRRIGATION AND LIVESTOCK WATERING		
LEAFY VEGETABLE CONSUMPTION	4.2E-08	4.8E-11
PRODUCE CONSUMPTION	2.1E-07	2.4E-10
MEAT CONSUMPTION	1.6E-07	1.8E-09
MILK CONSUMPTION	2.8E-06	1.7E-08
EXPOSURE TO CONTAMINATED SOIL	3.4E-08	3.4E-08
TOTAL	2.4E-03	5.7E-07
AVERAGE DOSE (MREM/PERSON)	1.2E-06	2.8E-10

**TABLE 2-5**

SECOND QUARTER 2004

POPULATION DOSE (50-MILE) FROM  
LIQUID EFFLUENTS  
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
<b>AQUATIC</b>		
DRINKING WATER	2.9E-07	1.5E-10
FISH CONSUMPTION	2.7E-05	4.2E-10
INVERTEBRATE CONSUMPTION	1.0E-07	4.7E-13
EXPOSURE TO CONTAMINATED SEDIMENT	2.3E-12	2.3E-12
SWIMMING AND BOATING	1.2E-13	1.2E-13
<b>IRRIGATION AND LIVESTOCK WATERING</b>		
LEAFY VEGETABLE CONSUMPTION	3.1E-09	2.6E-13
PRODUCE CONSUMPTION	1.5E-08	1.3E-12
MEAT CONSUMPTION	7.3E-09	9.5E-12
MILK CONSUMPTION	9.7E-08	9.4E-11
EXPOSURE TO CONTAMINATED SOIL	1.9E-13	1.9E-13
<b>TOTAL</b>	<b>2.8E-05</b>	<b>6.8E-10</b>
<b>AVERAGE DOSE (MREM/PERSON)</b>	<b>1.4E-08</b>	<b>3.3E-13</b>

TABLE 2-6

THIRD QUARTER 2004  
POPULATION DOSE (50-MILE) FROM  
LIQUID EFFLUENTS  
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AQUATIC		
DRINKING WATER	1.4E-08	0.0E+00
FISH CONSUMPTION	7.2E-05	0.0E+00
INVERTEBRATE CONSUMPTION	4.1E-08	0.0E+00
EXPOSURE TO CONTAMINATED SEDIMENT	2.7E-08	2.7E-08
SWIMMING AND BOATING	1.2E-10	1.2E-10
IRRIGATION AND LIVESTOCK WATERING		
LEAFY VEGETABLE CONSUMPTION	1.4E-10	0.0E+00
PRODUCE CONSUMPTION	7.0E-10	0.0E+00
MEAT CONSUMPTION	2.8E-09	0.0E+00
MILK CONSUMPTION	5.8E-08	0.0E+00
EXPOSURE TO CONTAMINATED SOIL	2.3E-09	2.3E-09
TOTAL	7.2E-05	2.9E-08
AVERAGE DOSE (MREM/PERSON)	3.5E-08	1.4E-11

TABLE 2-7

FOURTH QUARTER 2004  
POPULATION DOSE (50-MILE) FROM  
LIQUID EFFLUENTS  
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AQUATIC		
DRINKING WATER	1.6E-10	0.0E+00
FISH CONSUMPTION	2.6E-08	0.0E+00
INVERTEBRATE CONSUMPTION	1.1E-10	0.0E+00
EXPOSURE TO CONTAMINATED SEDIMENT	1.8E-09	1.8E-09
SWIMMING AND BOATING	8.9E-12	8.9E-12
IRRIGATION AND LIVESTOCK WATERING		
LEAFY VEGETABLE CONSUMPTION	1.7E-12	0.0E+00
PRODUCE CONSUMPTION	8.1E-12	0.0E+00
MEAT CONSUMPTION	8.1E-11	0.0E+00
MILK CONSUMPTION	6.6E-11	0.0E+00
EXPOSURE TO CONTAMINATED SOIL	1.5E-10	1.5E-10
TOTAL	2.8E-08	2.0E-09
AVERAGE DOSE (MREM/PERSON)	1.4E-11	9.6E-13

**TABLE 2-8**

**BATCH RELEASES  
FIRST, SECOND, THIRD, AND FOURTH QUARTERS 2004**

**DOSES FROM NOBLE GASES AT  
SITE BOUNDARY AND RESIDENCE OF  
HIGHEST CONCENTRATION**

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	<u>Site Boundary</u> <sup>[a]</sup>	<u>Residence</u> <sup>[b]</sup>
Beta Air Dose (mrad)	0.00E+00	0.00E+00
Gamma Air Dose (mrad)	0.00E+00	0.00E+00
Beta + Gamma Skin Dose (mrem)	-	0.00E+00
Gamma Total Body Dose (mrem)	-	0.00E+00

---

[a] All Sectors  
[b] All Sectors

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**TABLE 2-9**

**CONTINUOUS RELEASES  
FIRST, SECOND, THIRD, AND FOURTH QUARTERS 2004**

**DOSES FROM NOBLE GASES AT  
SITE BOUNDARY AND RESIDENCE OF  
HIGHEST CONCENTRATION**

---

	<u>Site Boundary</u> <sup>[a]</sup>	<u>Residence</u> <sup>[b]</sup>
Beta Air Dose (mrad)	0.00E+00	0.00E+00
Gamma Air Dose (mrad)	0.00E+00	0.00E+00
Beta + Gamma Skin Dose (mrem)	-	0.00E+00
Gamma Total Body Dose (mrem)	-	0.00E+00

---

[a] All Sectors  
[b] All Sectors

---



**TABLE 2-10**

**BATCH + CONTINUOUS RELEASES  
FIRST, SECOND, THIRD, AND FOURTH QUARTERS 2004**

**DOSES FROM NOBLE GASES AT  
SITE BOUNDARY AND RESIDENCE OF  
HIGHEST CONCENTRATION**

---

	<u>Site Boundary</u> <sup>[a]</sup>	<u>Residence</u> <sup>[b]</sup>
Beta Air Dose (mrad)	0.00E+00	0.00E+00
Gamma Air Dose (mrad)	0.00E+00	0.00E+00
Beta + Gamma Skin Dose (mrem)	-	0.00E+00
Gamma Total Body Dose (mrem)	-	0.00E+00

---

[a] All Sectors  
[b] All Sectors

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TABLE 2-11

# 1 QUARTER 2004 BATCH RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-12**

# 1 QUARTER 2004 CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-13**

# 1 QUARTER 2004 BATCH + CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS.  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-14**

# 1 QUARTER 2004 BATCH RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-15**

# 1 QUARTER 2004 CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-16**

# 1 QUARTER 2004 BATCH + CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-17**

# 1 QUARTER 2004 BATCH RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>



**TABLE 2-18**

# 1 QUARTER 2004 CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-19**

# 1 QUARTER 2004 BATCH + CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-20**

# 1 QUARTER 2004 BATCH RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
-----								
GARDEN (NORTH SECTOR AT 663. METERS)								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-----								

**TABLE 2-21**

# 1 QUARTER 2004 CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-22**

# 1 QUARTER 2004 BATCH + CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
-----								
GARDEN								
MAXIMUM LOCATION								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL								
MAXIMUM LOCATION								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW								
MAXIMUM LOCATION								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT								
MAXIMUM LOCATION								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-----								

**TABLE 2-23**

# 2 QUARTER 2004 BATCH RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-24**

# 2 QUARTER 2004 CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-25**

# 2 QUARTER 2004 BATCH + CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
GARDEN								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT								
MAXIMUM LOCATION								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00



**TABLE 2-26**

# 2 QUARTER 2004 BATCH RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-27**

# 2 QUARTER 2004 CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-28**

# 2 QUARTER 2004 BATCH + CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-29**

# 2 QUARTER 2004 BATCH RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-30**

# 2 QUARTER 2004 CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b>								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b>								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b>								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-31**

# 2 QUARTER 2004 BATCH + CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-32**

# 2 QUARTER 2004 BATCH RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-33**

# 2 QUARTER 2004 CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>



**TABLE 2-34**

# 2 QUARTER 2004 BATCH + CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-35**

# 3 QUARTER 2004 BATCH RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b>								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b>								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b>								
(NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-36**

# 3 QUARTER 2004 CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.12E-10	1.23E-12	3.23E-11	0.00E+00	4.40E-13	4.97E-11	3.74E-12	3.23E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.71E-09	1.40E-11	6.72E-10	0.00E+00	4.76E-12	1.58E-12	7.83E-11	6.72E-10
PRODUCE CONSUMPTION	1.46E-08	7.57E-11	3.63E-09	0.00E+00	2.57E-11	8.54E-12	4.23E-10	3.63E-09
<b>TOTAL</b>	<b>1.80E-08</b>	<b>2.06E-10</b>	<b>4.45E-09</b>	<b>1.16E-10</b>	<b>1.46E-10</b>	<b>1.75E-10</b>	<b>6.20E-10</b>	<b>4.47E-09</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.12E-10	1.23E-12	3.23E-11	0.00E+00	4.40E-13	4.97E-11	3.74E-12	3.23E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.71E-09	1.40E-11	6.72E-10	0.00E+00	4.76E-12	1.58E-12	7.83E-11	6.72E-10
PRODUCE CONSUMPTION	1.46E-08	7.57E-11	3.63E-09	0.00E+00	2.57E-11	8.54E-12	4.23E-10	3.63E-09
MEAT CONSUMPTION	3.04E-10	1.06E-11	7.97E-11	0.00E+00	3.60E-12	1.20E-12	8.77E-12	7.97E-11
<b>TOTAL</b>	<b>1.83E-08</b>	<b>2.17E-10</b>	<b>4.53E-09</b>	<b>1.16E-10</b>	<b>1.50E-10</b>	<b>1.76E-10</b>	<b>6.29E-10</b>	<b>4.55E-09</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.12E-10	1.23E-12	3.23E-11	0.00E+00	4.40E-13	4.97E-11	3.74E-12	3.23E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.71E-09	1.40E-11	6.72E-10	0.00E+00	4.76E-12	1.58E-12	7.83E-11	6.72E-10
PRODUCE CONSUMPTION	1.46E-08	7.57E-11	3.63E-09	0.00E+00	2.57E-11	8.54E-12	4.23E-10	3.63E-09
MEAT CONSUMPTION	3.04E-10	1.06E-11	7.97E-11	0.00E+00	3.60E-12	1.20E-12	8.77E-12	7.97E-11
COW MILK CONSUMPTION	1.18E-09	8.98E-11	3.33E-10	0.00E+00	3.05E-11	1.01E-11	3.40E-11	3.33E-10
<b>TOTAL</b>	<b>1.95E-08</b>	<b>3.07E-10</b>	<b>4.86E-09</b>	<b>1.16E-10</b>	<b>1.81E-10</b>	<b>1.87E-10</b>	<b>6.63E-10</b>	<b>4.88E-09</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.12E-10	1.23E-12	3.23E-11	0.00E+00	4.40E-13	4.97E-11	3.74E-12	3.23E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.71E-09	1.40E-11	6.72E-10	0.00E+00	4.76E-12	1.58E-12	7.83E-11	6.72E-10
PRODUCE CONSUMPTION	1.46E-08	7.57E-11	3.63E-09	0.00E+00	2.57E-11	8.54E-12	4.23E-10	3.63E-09
MEAT CONSUMPTION	3.04E-10	1.06E-11	7.97E-11	0.00E+00	3.60E-12	1.20E-12	8.77E-12	7.97E-11
GOAT MILK CONSUMPTION	2.54E-09	2.69E-10	7.51E-10	0.00E+00	9.15E-11	3.04E-11	7.29E-11	7.51E-10
<b>TOTAL</b>	<b>2.08E-08</b>	<b>4.87E-10</b>	<b>5.28E-09</b>	<b>1.16E-10</b>	<b>2.41E-10</b>	<b>2.07E-10</b>	<b>7.02E-10</b>	<b>5.30E-09</b>

**TABLE 2-37**

# 3 QUARTER 2004 BATCH + CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	5.12E-10	1.23E-12	3.23E-11	0.00E+00	4.40E-13	4.97E-11	3.74E-12	3.23E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.71E-09	1.40E-11	6.72E-10	0.00E+00	4.76E-12	1.58E-12	7.83E-11	6.72E-10
PRODUCE CONSUMPTION	1.46E-08	7.57E-11	3.63E-09	0.00E+00	2.57E-11	8.54E-12	4.23E-10	3.63E-09
<b>TOTAL</b>	<b>1.80E-08</b>	<b>2.06E-10</b>	<b>4.45E-09</b>	<b>1.16E-10</b>	<b>1.46E-10</b>	<b>1.75E-10</b>	<b>6.20E-10</b>	<b>4.47E-09</b>
<b>MEAT ANIMAL</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	5.12E-10	1.23E-12	3.23E-11	0.00E+00	4.40E-13	4.97E-11	3.74E-12	3.23E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.71E-09	1.40E-11	6.72E-10	0.00E+00	4.76E-12	1.58E-12	7.83E-11	6.72E-10
PRODUCE CONSUMPTION	1.46E-08	7.57E-11	3.63E-09	0.00E+00	2.57E-11	8.54E-12	4.23E-10	3.63E-09
MEAT CONSUMPTION	3.04E-10	1.06E-11	7.97E-11	0.00E+00	3.60E-12	1.20E-12	8.77E-12	7.97E-11
<b>TOTAL</b>	<b>1.83E-08</b>	<b>2.17E-10</b>	<b>4.53E-09</b>	<b>1.16E-10</b>	<b>1.50E-10</b>	<b>1.76E-10</b>	<b>6.29E-10</b>	<b>4.55E-09</b>
<b>MILK COW</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	5.12E-10	1.23E-12	3.23E-11	0.00E+00	4.40E-13	4.97E-11	3.74E-12	3.23E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.71E-09	1.40E-11	6.72E-10	0.00E+00	4.76E-12	1.58E-12	7.83E-11	6.72E-10
PRODUCE CONSUMPTION	1.46E-08	7.57E-11	3.63E-09	0.00E+00	2.57E-11	8.54E-12	4.23E-10	3.63E-09
MEAT CONSUMPTION	3.04E-10	1.06E-11	7.97E-11	0.00E+00	3.60E-12	1.20E-12	8.77E-12	7.97E-11
COW MILK CONSUMPTION	1.18E-09	8.98E-11	3.33E-10	0.00E+00	3.05E-11	1.01E-11	3.40E-11	3.33E-10
<b>TOTAL</b>	<b>1.95E-08</b>	<b>3.07E-10</b>	<b>4.86E-09</b>	<b>1.16E-10</b>	<b>1.81E-10</b>	<b>1.87E-10</b>	<b>6.63E-10</b>	<b>4.88E-09</b>
<b>MILK GOAT</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	5.12E-10	1.23E-12	3.23E-11	0.00E+00	4.40E-13	4.97E-11	3.74E-12	3.23E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.71E-09	1.40E-11	6.72E-10	0.00E+00	4.76E-12	1.58E-12	7.83E-11	6.72E-10
PRODUCE CONSUMPTION	1.46E-08	7.57E-11	3.63E-09	0.00E+00	2.57E-11	8.54E-12	4.23E-10	3.63E-09
MEAT CONSUMPTION	3.04E-10	1.06E-11	7.97E-11	0.00E+00	3.60E-12	1.20E-12	8.77E-12	7.97E-11
GOAT MILK CONSUMPTION	2.54E-09	2.69E-10	7.51E-10	0.00E+00	9.15E-11	3.04E-11	7.29E-11	7.51E-10
<b>TOTAL</b>	<b>2.08E-08</b>	<b>4.87E-10</b>	<b>5.28E-09</b>	<b>1.16E-10</b>	<b>2.41E-10</b>	<b>2.07E-10</b>	<b>7.02E-10</b>	<b>5.30E-09</b>

**TABLE 2-38**

# 3 QUARTER 2004 BATCH RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-39**

# 3 QUARTER 2004 CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.58E-10	1.68E-12	3.51E-11	0.00E+00	6.02E-13	8.52E-11	3.96E-12	3.51E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	1.95E-09	1.26E-11	4.84E-10	0.00E+00	4.28E-12	1.66E-12	5.47E-11	4.84E-10
PRODUCE CONSUMPTION	2.07E-08	1.33E-10	5.13E-09	0.00E+00	4.54E-11	1.76E-11	5.80E-10	5.13E-09
<b>TOTAL</b>	<b>2.33E-08</b>	<b>2.63E-10</b>	<b>5.76E-09</b>	<b>1.16E-10</b>	<b>1.66E-10</b>	<b>2.20E-10</b>	<b>7.54E-10</b>	<b>5.78E-09</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.58E-10	1.68E-12	3.51E-11	0.00E+00	6.02E-13	8.52E-11	3.96E-12	3.51E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	1.95E-09	1.26E-11	4.84E-10	0.00E+00	4.28E-12	1.66E-12	5.47E-11	4.84E-10
PRODUCE CONSUMPTION	2.07E-08	1.33E-10	5.13E-09	0.00E+00	4.54E-11	1.76E-11	5.80E-10	5.13E-09
MEAT CONSUMPTION	1.98E-10	8.57E-12	5.04E-11	0.00E+00	2.92E-12	1.13E-12	5.51E-12	5.04E-11
<b>TOTAL</b>	<b>2.35E-08</b>	<b>2.72E-10</b>	<b>5.81E-09</b>	<b>1.16E-10</b>	<b>1.69E-10</b>	<b>2.21E-10</b>	<b>7.59E-10</b>	<b>5.83E-09</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.58E-10	1.68E-12	3.51E-11	0.00E+00	6.02E-13	8.52E-11	3.96E-12	3.51E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	1.95E-09	1.26E-11	4.84E-10	0.00E+00	4.28E-12	1.66E-12	5.47E-11	4.84E-10
PRODUCE CONSUMPTION	2.07E-08	1.33E-10	5.13E-09	0.00E+00	4.54E-11	1.76E-11	5.80E-10	5.13E-09
MEAT CONSUMPTION	1.98E-10	8.57E-12	5.04E-11	0.00E+00	2.92E-12	1.13E-12	5.51E-12	5.04E-11
COW MILK CONSUMPTION	1.69E-09	1.58E-10	4.44E-10	0.00E+00	5.39E-11	2.09E-11	4.65E-11	4.44E-10
<b>TOTAL</b>	<b>2.52E-08</b>	<b>4.30E-10</b>	<b>6.26E-09</b>	<b>1.16E-10</b>	<b>2.23E-10</b>	<b>2.42E-10</b>	<b>8.06E-10</b>	<b>6.28E-09</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.58E-10	1.68E-12	3.51E-11	0.00E+00	6.02E-13	8.52E-11	3.96E-12	3.51E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	1.95E-09	1.26E-11	4.84E-10	0.00E+00	4.28E-12	1.66E-12	5.47E-11	4.84E-10
PRODUCE CONSUMPTION	2.07E-08	1.33E-10	5.13E-09	0.00E+00	4.54E-11	1.76E-11	5.80E-10	5.13E-09
MEAT CONSUMPTION	1.98E-10	8.57E-12	5.04E-11	0.00E+00	2.92E-12	1.13E-12	5.51E-12	5.04E-11
GOAT MILK CONSUMPTION	3.67E-09	4.75E-10	9.83E-10	0.00E+00	1.62E-10	6.28E-11	9.97E-11	9.83E-10
<b>TOTAL</b>	<b>2.72E-08</b>	<b>7.47E-10</b>	<b>6.80E-09</b>	<b>1.16E-10</b>	<b>3.30E-10</b>	<b>2.84E-10</b>	<b>8.59E-10</b>	<b>6.82E-09</b>

**TABLE 2-40**

# 3 QUARTER 2004 BATCH + CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN MAXIMUM LOCATION</b>								
AIR INHALATION	5.58E-10	1.68E-12	3.51E-11	0.00E+00	6.02E-13	8.52E-11	3.96E-12	3.51E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	1.95E-09	1.26E-11	4.84E-10	0.00E+00	4.28E-12	1.66E-12	5.47E-11	4.84E-10
PRODUCE CONSUMPTION	2.07E-08	1.33E-10	5.13E-09	0.00E+00	4.54E-11	1.76E-11	5.80E-10	5.13E-09
<b>TOTAL</b>	<b>2.33E-08</b>	<b>2.63E-10</b>	<b>5.76E-09</b>	<b>1.16E-10</b>	<b>1.66E-10</b>	<b>2.20E-10</b>	<b>7.54E-10</b>	<b>5.78E-09</b>
<b>MEAT ANIMAL MAXIMUM LOCATION</b>								
AIR INHALATION	5.58E-10	1.68E-12	3.51E-11	0.00E+00	6.02E-13	8.52E-11	3.96E-12	3.51E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	1.95E-09	1.26E-11	4.84E-10	0.00E+00	4.28E-12	1.66E-12	5.47E-11	4.84E-10
PRODUCE CONSUMPTION	2.07E-08	1.33E-10	5.13E-09	0.00E+00	4.54E-11	1.76E-11	5.80E-10	5.13E-09
MEAT CONSUMPTION	1.98E-10	8.57E-12	5.04E-11	0.00E+00	2.92E-12	1.13E-12	5.51E-12	5.04E-11
<b>TOTAL</b>	<b>2.35E-08</b>	<b>2.72E-10</b>	<b>5.81E-09</b>	<b>1.16E-10</b>	<b>1.69E-10</b>	<b>2.21E-10</b>	<b>7.59E-10</b>	<b>5.83E-09</b>
<b>MILK COW MAXIMUM LOCATION</b>								
AIR INHALATION	5.58E-10	1.68E-12	3.51E-11	0.00E+00	6.02E-13	8.52E-11	3.96E-12	3.51E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	1.95E-09	1.26E-11	4.84E-10	0.00E+00	4.28E-12	1.66E-12	5.47E-11	4.84E-10
PRODUCE CONSUMPTION	2.07E-08	1.33E-10	5.13E-09	0.00E+00	4.54E-11	1.76E-11	5.80E-10	5.13E-09
MEAT CONSUMPTION	1.98E-10	8.57E-12	5.04E-11	0.00E+00	2.92E-12	1.13E-12	5.51E-12	5.04E-11
COW MILK CONSUMPTION	1.69E-09	1.58E-10	4.44E-10	0.00E+00	5.39E-11	2.09E-11	4.65E-11	4.44E-10
<b>TOTAL</b>	<b>2.52E-08</b>	<b>4.30E-10</b>	<b>6.26E-09</b>	<b>1.16E-10</b>	<b>2.23E-10</b>	<b>2.42E-10</b>	<b>8.06E-10</b>	<b>6.28E-09</b>
<b>MILK GOAT MAXIMUM LOCATION</b>								
AIR INHALATION	5.58E-10	1.68E-12	3.51E-11	0.00E+00	6.02E-13	8.52E-11	3.96E-12	3.51E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	1.95E-09	1.26E-11	4.84E-10	0.00E+00	4.28E-12	1.66E-12	5.47E-11	4.84E-10
PRODUCE CONSUMPTION	2.07E-08	1.33E-10	5.13E-09	0.00E+00	4.54E-11	1.76E-11	5.80E-10	5.13E-09
MEAT CONSUMPTION	1.98E-10	8.57E-12	5.04E-11	0.00E+00	2.92E-12	1.13E-12	5.51E-12	5.04E-11
GOAT MILK CONSUMPTION	3.67E-09	4.75E-10	9.83E-10	0.00E+00	1.62E-10	6.28E-11	9.97E-11	9.83E-10
<b>TOTAL</b>	<b>2.72E-08</b>	<b>7.47E-10</b>	<b>6.80E-09</b>	<b>1.16E-10</b>	<b>3.30E-10</b>	<b>2.84E-10</b>	<b>8.59E-10</b>	<b>6.82E-09</b>

**TABLE 2-41**

# 3 QUARTER 2004 BATCH RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>



**TABLE 2-42**

# 3 QUARTER 2004 CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.23E-10	1.63E-12	3.35E-11	0.00E+00	5.59E-13	7.63E-11	1.78E-12	3.35E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.48E-09	1.64E-11	6.27E-10	0.00E+00	5.33E-12	1.92E-12	3.33E-11	6.27E-10
PRODUCE CONSUMPTION	3.57E-08	2.35E-10	9.01E-09	0.00E+00	7.67E-11	2.76E-11	4.79E-10	9.01E-09
<b>TOTAL</b>	<b>3.88E-08</b>	<b>3.69E-10</b>	<b>9.79E-09</b>	<b>1.16E-10</b>	<b>1.98E-10</b>	<b>2.21E-10</b>	<b>6.29E-10</b>	<b>9.81E-09</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.23E-10	1.63E-12	3.35E-11	0.00E+00	5.59E-13	7.63E-11	1.78E-12	3.35E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.48E-09	1.64E-11	6.27E-10	0.00E+00	5.33E-12	1.92E-12	3.33E-11	6.27E-10
PRODUCE CONSUMPTION	3.57E-08	2.35E-10	9.01E-09	0.00E+00	7.67E-11	2.76E-11	4.79E-10	9.01E-09
MEAT CONSUMPTION	2.60E-10	1.14E-11	6.45E-11	0.00E+00	3.70E-12	1.33E-12	3.41E-12	6.45E-11
<b>TOTAL</b>	<b>3.90E-08</b>	<b>3.80E-10</b>	<b>9.85E-09</b>	<b>1.16E-10</b>	<b>2.02E-10</b>	<b>2.23E-10</b>	<b>6.32E-10</b>	<b>9.87E-09</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.23E-10	1.63E-12	3.35E-11	0.00E+00	5.59E-13	7.63E-11	1.78E-12	3.35E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.48E-09	1.64E-11	6.27E-10	0.00E+00	5.33E-12	1.92E-12	3.33E-11	6.27E-10
PRODUCE CONSUMPTION	3.57E-08	2.35E-10	9.01E-09	0.00E+00	7.67E-11	2.76E-11	4.79E-10	9.01E-09
MEAT CONSUMPTION	2.60E-10	1.14E-11	6.45E-11	0.00E+00	3.70E-12	1.33E-12	3.41E-12	6.45E-11
COW MILK CONSUMPTION	2.95E-09	2.75E-10	7.16E-10	0.00E+00	8.95E-11	3.22E-11	3.76E-11	7.16E-10
<b>TOTAL</b>	<b>4.20E-08</b>	<b>6.55E-10</b>	<b>1.06E-08</b>	<b>1.16E-10</b>	<b>2.91E-10</b>	<b>2.55E-10</b>	<b>6.70E-10</b>	<b>1.06E-08</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	5.23E-10	1.63E-12	3.35E-11	0.00E+00	5.59E-13	7.63E-11	1.78E-12	3.35E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.48E-09	1.64E-11	6.27E-10	0.00E+00	5.33E-12	1.92E-12	3.33E-11	6.27E-10
PRODUCE CONSUMPTION	3.57E-08	2.35E-10	9.01E-09	0.00E+00	7.67E-11	2.76E-11	4.79E-10	9.01E-09
MEAT CONSUMPTION	2.60E-10	1.14E-11	6.45E-11	0.00E+00	3.70E-12	1.33E-12	3.41E-12	6.45E-11
GOAT MILK CONSUMPTION	6.45E-09	8.24E-10	1.54E-09	0.00E+00	2.68E-10	9.66E-11	8.05E-11	1.54E-09
<b>TOTAL</b>	<b>4.55E-08</b>	<b>1.20E-09</b>	<b>1.14E-08</b>	<b>1.16E-10</b>	<b>4.70E-10</b>	<b>3.19E-10</b>	<b>7.13E-10</b>	<b>1.14E-08</b>

**TABLE 2-43**

# 3 QUARTER 2004 BATCH + CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
-----								
GARDEN								
MAXIMUM LOCATION								
-----								
AIR INHALATION	5.23E-10	1.63E-12	3.35E-11	0.00E+00	5.59E-13	7.63E-11	1.78E-12	3.35E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.48E-09	1.64E-11	6.27E-10	0.00E+00	5.33E-12	1.92E-12	3.33E-11	6.27E-10
PRODUCE CONSUMPTION	3.57E-08	2.35E-10	9.01E-09	0.00E+00	7.67E-11	2.76E-11	4.79E-10	9.01E-09
TOTAL	3.88E-08	3.69E-10	9.79E-09	1.16E-10	1.98E-10	2.21E-10	6.29E-10	9.81E-09
MEAT ANIMAL								
MAXIMUM LOCATION								
-----								
AIR INHALATION	5.23E-10	1.63E-12	3.35E-11	0.00E+00	5.59E-13	7.63E-11	1.78E-12	3.35E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.48E-09	1.64E-11	6.27E-10	0.00E+00	5.33E-12	1.92E-12	3.33E-11	6.27E-10
PRODUCE CONSUMPTION	3.57E-08	2.35E-10	9.01E-09	0.00E+00	7.67E-11	2.76E-11	4.79E-10	9.01E-09
MEAT CONSUMPTION	2.60E-10	1.14E-11	6.45E-11	0.00E+00	3.70E-12	1.33E-12	3.41E-12	6.45E-11
TOTAL	3.90E-08	3.80E-10	9.85E-09	1.16E-10	2.02E-10	2.23E-10	6.32E-10	9.87E-09
MILK COW								
MAXIMUM LOCATION								
-----								
AIR INHALATION	5.23E-10	1.63E-12	3.35E-11	0.00E+00	5.59E-13	7.63E-11	1.78E-12	3.35E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.48E-09	1.64E-11	6.27E-10	0.00E+00	5.33E-12	1.92E-12	3.33E-11	6.27E-10
PRODUCE CONSUMPTION	3.57E-08	2.35E-10	9.01E-09	0.00E+00	7.67E-11	2.76E-11	4.79E-10	9.01E-09
MEAT CONSUMPTION	2.60E-10	1.14E-11	6.45E-11	0.00E+00	3.70E-12	1.33E-12	3.41E-12	6.45E-11
COW MILK CONSUMPTION	2.95E-09	2.75E-10	7.16E-10	0.00E+00	8.95E-11	3.22E-11	3.76E-11	7.16E-10
TOTAL	4.20E-08	6.55E-10	1.06E-08	1.16E-10	2.91E-10	2.55E-10	6.70E-10	1.06E-08
MILK GOAT								
MAXIMUM LOCATION								
-----								
AIR INHALATION	5.23E-10	1.63E-12	3.35E-11	0.00E+00	5.59E-13	7.63E-11	1.78E-12	3.35E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	2.48E-09	1.64E-11	6.27E-10	0.00E+00	5.33E-12	1.92E-12	3.33E-11	6.27E-10
PRODUCE CONSUMPTION	3.57E-08	2.35E-10	9.01E-09	0.00E+00	7.67E-11	2.76E-11	4.79E-10	9.01E-09
MEAT CONSUMPTION	2.60E-10	1.14E-11	6.45E-11	0.00E+00	3.70E-12	1.33E-12	3.41E-12	6.45E-11
GOAT MILK CONSUMPTION	6.45E-09	8.24E-10	1.54E-09	0.00E+00	2.68E-10	9.66E-11	8.05E-11	1.54E-09
TOTAL	4.55E-08	1.20E-09	1.14E-08	1.16E-10	4.70E-10	3.19E-10	7.13E-10	1.14E-08
-----								

**TABLE 2-44**

# 3 QUARTER 2004 BATCH RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
-----								
GARDEN (NORTH SECTOR AT 663. METERS)								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK COW (NORTH SECTOR AT 663. METERS)								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MILK GOAT (NORTH SECTOR AT 663. METERS)								
-----								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-----								

**TABLE 2-45**

# 3 QUARTER 2004 CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
-----								
GARDEN (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	2.12E-10	1.21E-12	1.34E-11	0.00E+00	3.41E-13	5.81E-11	6.78E-13	1.34E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	3.27E-10	1.17E-10	1.29E-10	1.16E-10	1.16E-10	1.74E-10	1.16E-10	1.48E-10
MEAT ANIMAL (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	2.12E-10	1.21E-12	1.34E-11	0.00E+00	3.41E-13	5.81E-11	6.78E-13	1.34E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TOTAL	3.27E-10	1.17E-10	1.29E-10	1.16E-10	1.16E-10	1.74E-10	1.16E-10	1.48E-10
MILK COW (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	2.12E-10	1.21E-12	1.34E-11	0.00E+00	3.41E-13	5.81E-11	6.78E-13	1.34E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	3.36E-09	5.36E-10	7.76E-10	0.00E+00	1.44E-10	5.82E-11	3.79E-11	7.76E-10
TOTAL	3.68E-09	6.53E-10	9.05E-10	1.16E-10	2.60E-10	2.32E-10	1.54E-10	9.24E-10
MILK GOAT (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	2.12E-10	1.21E-12	1.34E-11	0.00E+00	3.41E-13	5.81E-11	6.78E-13	1.34E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	7.46E-09	1.61E-09	1.66E-09	0.00E+00	4.32E-10	1.75E-10	8.10E-11	1.66E-09
TOTAL	7.79E-09	1.72E-09	1.79E-09	1.16E-10	5.47E-10	3.48E-10	1.97E-10	1.81E-09
-----								

**TABLE 2-46**

# 3 QUARTER 2004 BATCH + CONTINUOUS RELEASES ·

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	2.12E-10	1.21E-12	1.34E-11	0.00E+00	3.41E-13	5.81E-11	6.78E-13	1.34E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>3.27E-10</b>	<b>1.17E-10</b>	<b>1.29E-10</b>	<b>1.16E-10</b>	<b>1.16E-10</b>	<b>1.74E-10</b>	<b>1.16E-10</b>	<b>1.48E-10</b>
<b>MEAT ANIMAL</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	2.12E-10	1.21E-12	1.34E-11	0.00E+00	3.41E-13	5.81E-11	6.78E-13	1.34E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>3.27E-10</b>	<b>1.17E-10</b>	<b>1.29E-10</b>	<b>1.16E-10</b>	<b>1.16E-10</b>	<b>1.74E-10</b>	<b>1.16E-10</b>	<b>1.48E-10</b>
<b>MILK COW</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	2.12E-10	1.21E-12	1.34E-11	0.00E+00	3.41E-13	5.81E-11	6.78E-13	1.34E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	3.36E-09	5.36E-10	7.76E-10	0.00E+00	1.44E-10	5.82E-11	3.79E-11	7.76E-10
<b>TOTAL</b>	<b>3.68E-09</b>	<b>6.53E-10</b>	<b>9.05E-10</b>	<b>1.16E-10</b>	<b>2.60E-10</b>	<b>2.32E-10</b>	<b>1.54E-10</b>	<b>9.24E-10</b>
<b>MILK GOAT</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	2.12E-10	1.21E-12	1.34E-11	0.00E+00	3.41E-13	5.81E-11	6.78E-13	1.34E-11
EXPOSURE TO SOIL	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.16E-10	1.35E-10
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	7.46E-09	1.61E-09	1.66E-09	0.00E+00	4.32E-10	1.75E-10	8.10E-11	1.66E-09
<b>TOTAL</b>	<b>7.79E-09</b>	<b>1.72E-09</b>	<b>1.79E-09</b>	<b>1.16E-10</b>	<b>5.47E-10</b>	<b>3.48E-10</b>	<b>1.97E-10</b>	<b>1.81E-09</b>

**TABLE 2-47**

# 4 QUARTER 2004 BATCH RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-48**

# 4 QUARTER 2004 CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	4.79E-10	0.00E+00	2.95E-11	0.00E+00	0.00E+00	4.64E-11	3.49E-12	2.95E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.53E-09	0.00E+00	6.21E-10	0.00E+00	0.00E+00	0.00E+00	7.32E-11	6.21E-10
PRODUCE CONSUMPTION	1.37E-08	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	3.95E-10	3.35E-09
<b>TOTAL</b>	<b>1.67E-08</b>	<b>0.00E+00</b>	<b>4.00E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.64E-11</b>	<b>4.71E-10</b>	<b>4.00E-09</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	4.79E-10	0.00E+00	2.95E-11	0.00E+00	0.00E+00	4.64E-11	3.49E-12	2.95E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.53E-09	0.00E+00	6.21E-10	0.00E+00	0.00E+00	0.00E+00	7.32E-11	6.21E-10
PRODUCE CONSUMPTION	1.37E-08	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	3.95E-10	3.35E-09
MEAT CONSUMPTION	2.78E-10	0.00E+00	6.82E-11	0.00E+00	0.00E+00	0.00E+00	8.03E-12	6.82E-11
<b>TOTAL</b>	<b>1.69E-08</b>	<b>0.00E+00</b>	<b>4.07E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.64E-11</b>	<b>4.79E-10</b>	<b>4.07E-09</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	4.79E-10	0.00E+00	2.95E-11	0.00E+00	0.00E+00	4.64E-11	3.49E-12	2.95E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.53E-09	0.00E+00	6.21E-10	0.00E+00	0.00E+00	0.00E+00	7.32E-11	6.21E-10
PRODUCE CONSUMPTION	1.37E-08	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	3.95E-10	3.35E-09
MEAT CONSUMPTION	2.78E-10	0.00E+00	6.82E-11	0.00E+00	0.00E+00	0.00E+00	8.03E-12	6.82E-11
COW MILK CONSUMPTION	1.05E-09	0.00E+00	2.56E-10	0.00E+00	0.00E+00	0.00E+00	3.02E-11	2.56E-10
<b>TOTAL</b>	<b>1.80E-08</b>	<b>0.00E+00</b>	<b>4.33E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.64E-11</b>	<b>5.09E-10</b>	<b>4.33E-09</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	4.79E-10	0.00E+00	2.95E-11	0.00E+00	0.00E+00	4.64E-11	3.49E-12	2.95E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.53E-09	0.00E+00	6.21E-10	0.00E+00	0.00E+00	0.00E+00	7.32E-11	6.21E-10
PRODUCE CONSUMPTION	1.37E-08	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	3.95E-10	3.35E-09
MEAT CONSUMPTION	2.78E-10	0.00E+00	6.82E-11	0.00E+00	0.00E+00	0.00E+00	8.03E-12	6.82E-11
GOAT MILK CONSUMPTION	2.19E-09	0.00E+00	5.39E-10	0.00E+00	0.00E+00	0.00E+00	6.34E-11	5.39E-10
<b>TOTAL</b>	<b>1.91E-08</b>	<b>0.00E+00</b>	<b>4.61E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.64E-11</b>	<b>5.43E-10</b>	<b>4.61E-09</b>

**TABLE 2-49**

# 4 QUARTER 2004 BATCH + CONTINUOUS RELEASES

ADULT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	4.79E-10	0.00E+00	2.95E-11	0.00E+00	0.00E+00	4.64E-11	3.49E-12	2.95E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.53E-09	0.00E+00	6.21E-10	0.00E+00	0.00E+00	0.00E+00	7.32E-11	6.21E-10
PRODUCE CONSUMPTION	1.37E-08	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	3.95E-10	3.35E-09
<b>TOTAL</b>	<b>1.67E-08</b>	<b>0.00E+00</b>	<b>4.00E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.64E-11</b>	<b>4.71E-10</b>	<b>4.00E-09</b>
<b>MEAT ANIMAL</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	4.79E-10	0.00E+00	2.95E-11	0.00E+00	0.00E+00	4.64E-11	3.49E-12	2.95E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.53E-09	0.00E+00	6.21E-10	0.00E+00	0.00E+00	0.00E+00	7.32E-11	6.21E-10
PRODUCE CONSUMPTION	1.37E-08	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	3.95E-10	3.35E-09
MEAT CONSUMPTION	2.78E-10	0.00E+00	6.82E-11	0.00E+00	0.00E+00	0.00E+00	8.03E-12	6.82E-11
<b>TOTAL</b>	<b>1.69E-08</b>	<b>0.00E+00</b>	<b>4.07E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.64E-11</b>	<b>4.79E-10</b>	<b>4.07E-09</b>
<b>MILK COW</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	4.79E-10	0.00E+00	2.95E-11	0.00E+00	0.00E+00	4.64E-11	3.49E-12	2.95E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.53E-09	0.00E+00	6.21E-10	0.00E+00	0.00E+00	0.00E+00	7.32E-11	6.21E-10
PRODUCE CONSUMPTION	1.37E-08	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	3.95E-10	3.35E-09
MEAT CONSUMPTION	2.78E-10	0.00E+00	6.82E-11	0.00E+00	0.00E+00	0.00E+00	8.03E-12	6.82E-11
COW MILK CONSUMPTION	1.05E-09	0.00E+00	2.56E-10	0.00E+00	0.00E+00	0.00E+00	3.02E-11	2.56E-10
<b>TOTAL</b>	<b>1.80E-08</b>	<b>0.00E+00</b>	<b>4.33E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.64E-11</b>	<b>5.09E-10</b>	<b>4.33E-09</b>
<b>MILK GOAT</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	4.79E-10	0.00E+00	2.95E-11	0.00E+00	0.00E+00	4.64E-11	3.49E-12	2.95E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.53E-09	0.00E+00	6.21E-10	0.00E+00	0.00E+00	0.00E+00	7.32E-11	6.21E-10
PRODUCE CONSUMPTION	1.37E-08	0.00E+00	3.35E-09	0.00E+00	0.00E+00	0.00E+00	3.95E-10	3.35E-09
MEAT CONSUMPTION	2.78E-10	0.00E+00	6.82E-11	0.00E+00	0.00E+00	0.00E+00	8.03E-12	6.82E-11
GOAT MILK CONSUMPTION	2.19E-09	0.00E+00	5.39E-10	0.00E+00	0.00E+00	0.00E+00	6.34E-11	5.39E-10
<b>TOTAL</b>	<b>1.91E-08</b>	<b>0.00E+00</b>	<b>4.61E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.64E-11</b>	<b>5.43E-10</b>	<b>4.61E-09</b>



**TABLE 2-50**

# 4 QUARTER 2004 BATCH RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-51**

# 4 QUARTER 2004 CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS (MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	5.22E-10	0.00E+00	3.23E-11	0.00E+00	0.00E+00	7.96E-11	3.70E-12	3.23E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	1.82E-09	0.00E+00	4.49E-10	0.00E+00	0.00E+00	0.00E+00	5.11E-11	4.49E-10
PRODUCE CONSUMPTION	1.93E-08	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	5.41E-10	4.76E-09
<b>TOTAL</b>	<b>2.16E-08</b>	<b>0.00E+00</b>	<b>5.24E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.96E-11</b>	<b>5.96E-10</b>	<b>5.24E-09</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	5.22E-10	0.00E+00	3.23E-11	0.00E+00	0.00E+00	7.96E-11	3.70E-12	3.23E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	1.82E-09	0.00E+00	4.49E-10	0.00E+00	0.00E+00	0.00E+00	5.11E-11	4.49E-10
PRODUCE CONSUMPTION	1.93E-08	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	5.41E-10	4.76E-09
MEAT CONSUMPTION	1.80E-10	0.00E+00	4.44E-11	0.00E+00	0.00E+00	0.00E+00	5.05E-12	4.44E-11
<b>TOTAL</b>	<b>2.18E-08</b>	<b>0.00E+00</b>	<b>5.29E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.96E-11</b>	<b>6.01E-10</b>	<b>5.29E-09</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	5.22E-10	0.00E+00	3.23E-11	0.00E+00	0.00E+00	7.96E-11	3.70E-12	3.23E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	1.82E-09	0.00E+00	4.49E-10	0.00E+00	0.00E+00	0.00E+00	5.11E-11	4.49E-10
PRODUCE CONSUMPTION	1.93E-08	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	5.41E-10	4.76E-09
MEAT CONSUMPTION	1.80E-10	0.00E+00	4.44E-11	0.00E+00	0.00E+00	0.00E+00	5.05E-12	4.44E-11
COW MILK CONSUMPTION	1.48E-09	0.00E+00	3.65E-10	0.00E+00	0.00E+00	0.00E+00	4.15E-11	3.65E-10
<b>TOTAL</b>	<b>2.33E-08</b>	<b>0.00E+00</b>	<b>5.65E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.96E-11</b>	<b>6.43E-10</b>	<b>5.65E-09</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	5.22E-10	0.00E+00	3.23E-11	0.00E+00	0.00E+00	7.96E-11	3.70E-12	3.23E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	1.82E-09	0.00E+00	4.49E-10	0.00E+00	0.00E+00	0.00E+00	5.11E-11	4.49E-10
PRODUCE CONSUMPTION	1.93E-08	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	5.41E-10	4.76E-09
MEAT CONSUMPTION	1.80E-10	0.00E+00	4.44E-11	0.00E+00	0.00E+00	0.00E+00	5.05E-12	4.44E-11
GOAT MILK CONSUMPTION	3.10E-09	0.00E+00	7.66E-10	0.00E+00	0.00E+00	0.00E+00	8.71E-11	7.66E-10
<b>TOTAL</b>	<b>2.49E-08</b>	<b>0.00E+00</b>	<b>6.06E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.96E-11</b>	<b>6.88E-10</b>	<b>6.06E-09</b>

**TABLE 2-52**

# 4 QUARTER 2004 BATCH + CONTINUOUS RELEASES

TEEN

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	5.22E-10	0.00E+00	3.23E-11	0.00E+00	0.00E+00	7.96E-11	3.70E-12	3.23E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	1.82E-09	0.00E+00	4.49E-10	0.00E+00	0.00E+00	0.00E+00	5.11E-11	4.49E-10
PRODUCE CONSUMPTION	1.93E-08	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	5.41E-10	4.76E-09
<b>TOTAL</b>	<b>2.16E-08</b>	<b>0.00E+00</b>	<b>5.24E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.96E-11</b>	<b>5.96E-10</b>	<b>5.24E-09</b>
<b>MEAT ANIMAL</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	5.22E-10	0.00E+00	3.23E-11	0.00E+00	0.00E+00	7.96E-11	3.70E-12	3.23E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	1.82E-09	0.00E+00	4.49E-10	0.00E+00	0.00E+00	0.00E+00	5.11E-11	4.49E-10
PRODUCE CONSUMPTION	1.93E-08	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	5.41E-10	4.76E-09
MEAT CONSUMPTION	1.80E-10	0.00E+00	4.44E-11	0.00E+00	0.00E+00	0.00E+00	5.05E-12	4.44E-11
<b>TOTAL</b>	<b>2.18E-08</b>	<b>0.00E+00</b>	<b>5.29E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.96E-11</b>	<b>6.01E-10</b>	<b>5.29E-09</b>
<b>MILK COW</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	5.22E-10	0.00E+00	3.23E-11	0.00E+00	0.00E+00	7.96E-11	3.70E-12	3.23E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	1.82E-09	0.00E+00	4.49E-10	0.00E+00	0.00E+00	0.00E+00	5.11E-11	4.49E-10
PRODUCE CONSUMPTION	1.93E-08	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	5.41E-10	4.76E-09
MEAT CONSUMPTION	1.80E-10	0.00E+00	4.44E-11	0.00E+00	0.00E+00	0.00E+00	5.05E-12	4.44E-11
COW MILK CONSUMPTION	1.48E-09	0.00E+00	3.65E-10	0.00E+00	0.00E+00	0.00E+00	4.15E-11	3.65E-10
<b>TOTAL</b>	<b>2.33E-08</b>	<b>0.00E+00</b>	<b>5.65E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.96E-11</b>	<b>6.43E-10</b>	<b>5.65E-09</b>
<b>MILK GOAT</b>								
<b>MAXIMUM LOCATION</b>								
AIR INHALATION	5.22E-10	0.00E+00	3.23E-11	0.00E+00	0.00E+00	7.96E-11	3.70E-12	3.23E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	1.82E-09	0.00E+00	4.49E-10	0.00E+00	0.00E+00	0.00E+00	5.11E-11	4.49E-10
PRODUCE CONSUMPTION	1.93E-08	0.00E+00	4.76E-09	0.00E+00	0.00E+00	0.00E+00	5.41E-10	4.76E-09
MEAT CONSUMPTION	1.80E-10	0.00E+00	4.44E-11	0.00E+00	0.00E+00	0.00E+00	5.05E-12	4.44E-11
GOAT MILK CONSUMPTION	3.10E-09	0.00E+00	7.66E-10	0.00E+00	0.00E+00	0.00E+00	8.71E-11	7.66E-10
<b>TOTAL</b>	<b>2.49E-08</b>	<b>0.00E+00</b>	<b>6.06E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.96E-11</b>	<b>6.88E-10</b>	<b>6.06E-09</b>

**TABLE 2-53**

# 4 QUARTER 2004 BATCH RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-54**

# 4 QUARTER 2004 CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	4.88E-10	0.00E+00	3.11E-11	0.00E+00	0.00E+00	7.13E-11	1.66E-12	3.11E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.31E-09	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-11	5.85E-10
PRODUCE CONSUMPTION	3.32E-08	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	4.47E-10	8.41E-09
<b>TOTAL</b>	<b>3.60E-08</b>	<b>0.00E+00</b>	<b>9.03E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.13E-11</b>	<b>4.80E-10</b>	<b>9.03E-09</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	4.88E-10	0.00E+00	3.11E-11	0.00E+00	0.00E+00	7.13E-11	1.66E-12	3.11E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.31E-09	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-11	5.85E-10
PRODUCE CONSUMPTION	3.32E-08	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	4.47E-10	8.41E-09
MEAT CONSUMPTION	2.32E-10	0.00E+00	5.89E-11	0.00E+00	0.00E+00	0.00E+00	3.13E-12	5.89E-11
<b>TOTAL</b>	<b>3.62E-08</b>	<b>0.00E+00</b>	<b>9.09E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.13E-11</b>	<b>4.83E-10</b>	<b>9.09E-09</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	4.88E-10	0.00E+00	3.11E-11	0.00E+00	0.00E+00	7.13E-11	1.66E-12	3.11E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.31E-09	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-11	5.85E-10
PRODUCE CONSUMPTION	3.32E-08	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	4.47E-10	8.41E-09
MEAT CONSUMPTION	2.32E-10	0.00E+00	5.89E-11	0.00E+00	0.00E+00	0.00E+00	3.13E-12	5.89E-11
COW MILK CONSUMPTION	2.50E-09	0.00E+00	6.33E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-11	6.33E-10
<b>TOTAL</b>	<b>3.87E-08</b>	<b>0.00E+00</b>	<b>9.72E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.13E-11</b>	<b>5.17E-10</b>	<b>9.72E-09</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	4.88E-10	0.00E+00	3.11E-11	0.00E+00	0.00E+00	7.13E-11	1.66E-12	3.11E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.31E-09	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-11	5.85E-10
PRODUCE CONSUMPTION	3.32E-08	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	4.47E-10	8.41E-09
MEAT CONSUMPTION	2.32E-10	0.00E+00	5.89E-11	0.00E+00	0.00E+00	0.00E+00	3.13E-12	5.89E-11
GOAT MILK CONSUMPTION	5.24E-09	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	7.06E-11	1.33E-09
<b>TOTAL</b>	<b>4.15E-08</b>	<b>0.00E+00</b>	<b>1.04E-08</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.13E-11</b>	<b>5.53E-10</b>	<b>1.04E-08</b>

**TABLE 2-55**

# 4 QUARTER 2004 BATCH + CONTINUOUS RELEASES

CHILD

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN MAXIMUM LOCATION</b>								
AIR INHALATION	4.88E-10	0.00E+00	3.11E-11	0.00E+00	0.00E+00	7.13E-11	1.66E-12	3.11E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.31E-09	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-11	5.85E-10
PRODUCE CONSUMPTION	3.32E-08	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	4.47E-10	8.41E-09
<b>TOTAL</b>	<b>3.60E-08</b>	<b>0.00E+00</b>	<b>9.03E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.13E-11</b>	<b>4.80E-10</b>	<b>9.03E-09</b>
<b>MEAT ANIMAL MAXIMUM LOCATION</b>								
AIR INHALATION	4.88E-10	0.00E+00	3.11E-11	0.00E+00	0.00E+00	7.13E-11	1.66E-12	3.11E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.31E-09	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-11	5.85E-10
PRODUCE CONSUMPTION	3.32E-08	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	4.47E-10	8.41E-09
MEAT CONSUMPTION	2.32E-10	0.00E+00	5.89E-11	0.00E+00	0.00E+00	0.00E+00	3.13E-12	5.89E-11
<b>TOTAL</b>	<b>3.62E-08</b>	<b>0.00E+00</b>	<b>9.09E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.13E-11</b>	<b>4.83E-10</b>	<b>9.09E-09</b>
<b>MILK COW MAXIMUM LOCATION</b>								
AIR INHALATION	4.88E-10	0.00E+00	3.11E-11	0.00E+00	0.00E+00	7.13E-11	1.66E-12	3.11E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.31E-09	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-11	5.85E-10
PRODUCE CONSUMPTION	3.32E-08	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	4.47E-10	8.41E-09
MEAT CONSUMPTION	2.32E-10	0.00E+00	5.89E-11	0.00E+00	0.00E+00	0.00E+00	3.13E-12	5.89E-11
COW MILK CONSUMPTION	2.50E-09	0.00E+00	6.33E-10	0.00E+00	0.00E+00	0.00E+00	3.36E-11	6.33E-10
<b>TOTAL</b>	<b>3.87E-08</b>	<b>0.00E+00</b>	<b>9.72E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.13E-11</b>	<b>5.17E-10</b>	<b>9.72E-09</b>
<b>MILK GOAT MAXIMUM LOCATION</b>								
AIR INHALATION	4.88E-10	0.00E+00	3.11E-11	0.00E+00	0.00E+00	7.13E-11	1.66E-12	3.11E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	2.31E-09	0.00E+00	5.85E-10	0.00E+00	0.00E+00	0.00E+00	3.11E-11	5.85E-10
PRODUCE CONSUMPTION	3.32E-08	0.00E+00	8.41E-09	0.00E+00	0.00E+00	0.00E+00	4.47E-10	8.41E-09
MEAT CONSUMPTION	2.32E-10	0.00E+00	5.89E-11	0.00E+00	0.00E+00	0.00E+00	3.13E-12	5.89E-11
GOAT MILK CONSUMPTION	5.24E-09	0.00E+00	1.33E-09	0.00E+00	0.00E+00	0.00E+00	7.06E-11	1.33E-09
<b>TOTAL</b>	<b>4.15E-08</b>	<b>0.00E+00</b>	<b>1.04E-08</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>7.13E-11</b>	<b>5.53E-10</b>	<b>1.04E-08</b>

**TABLE 2-56**

# 4 QUARTER 2004 BATCH RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MEAT ANIMAL</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK COW</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>MILK GOAT</b> (NORTH SECTOR AT 663. METERS)								
AIR INHALATION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>

**TABLE 2-57**

# 4 QUARTER 2004 CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	1.98E-10	0.00E+00	1.25E-11	0.00E+00	0.00E+00	5.43E-11	6.33E-13	1.25E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>1.98E-10</b>	<b>0.00E+00</b>	<b>1.25E-11</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.43E-11</b>	<b>6.33E-13</b>	<b>1.25E-11</b>
<b>MEAT ANIMAL (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	1.98E-10	0.00E+00	1.25E-11	0.00E+00	0.00E+00	5.43E-11	6.33E-13	1.25E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>1.98E-10</b>	<b>0.00E+00</b>	<b>1.25E-11</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.43E-11</b>	<b>6.33E-13</b>	<b>1.25E-11</b>
<b>MILK COW (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	1.98E-10	0.00E+00	1.25E-11	0.00E+00	0.00E+00	5.43E-11	6.33E-13	1.25E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	2.72E-09	0.00E+00	6.91E-10	0.00E+00	0.00E+00	0.00E+00	3.39E-11	6.91E-10
<b>TOTAL</b>	<b>2.91E-09</b>	<b>0.00E+00</b>	<b>7.04E-10</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.43E-11</b>	<b>3.45E-11</b>	<b>7.04E-10</b>
<b>MILK GOAT (NORTH SECTOR AT 663. METERS)</b>								
AIR INHALATION	1.98E-10	0.00E+00	1.25E-11	0.00E+00	0.00E+00	5.43E-11	6.33E-13	1.25E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	5.70E-09	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	7.12E-11	1.45E-09
<b>TOTAL</b>	<b>5.90E-09</b>	<b>0.00E+00</b>	<b>1.46E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.43E-11</b>	<b>7.18E-11</b>	<b>1.46E-09</b>



**TABLE 2-58**

# 4 QUARTER 2004 BATCH + CONTINUOUS RELEASES

INFANT

DOSES FROM GASEOUS EFFLUENTS (EXCLUDING  
NOBLE GASES) AT MAXIMUM OFFSITE EXPOSURE LOCATIONS  
(MREM)

EXPOSURE LOCATION AND PATHWAY	BONE	LIVER	TOTAL BODY	THYROID	KIDNEY	LUNG	GI-LLI	SKIN
<b>GARDEN MAXIMUM LOCATION</b>								
AIR INHALATION	1.98E-10	0.00E+00	1.25E-11	0.00E+00	0.00E+00	5.43E-11	6.33E-13	1.25E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>1.98E-10</b>	<b>0.00E+00</b>	<b>1.25E-11</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.43E-11</b>	<b>6.33E-13</b>	<b>1.25E-11</b>
<b>MEAT ANIMAL MAXIMUM LOCATION</b>								
AIR INHALATION	1.98E-10	0.00E+00	1.25E-11	0.00E+00	0.00E+00	5.43E-11	6.33E-13	1.25E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>TOTAL</b>	<b>1.98E-10</b>	<b>0.00E+00</b>	<b>1.25E-11</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.43E-11</b>	<b>6.33E-13</b>	<b>1.25E-11</b>
<b>MILK COW MAXIMUM LOCATION</b>								
AIR INHALATION	1.98E-10	0.00E+00	1.25E-11	0.00E+00	0.00E+00	5.43E-11	6.33E-13	1.25E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
COW MILK CONSUMPTION	2.72E-09	0.00E+00	6.91E-10	0.00E+00	0.00E+00	0.00E+00	3.39E-11	6.91E-10
<b>TOTAL</b>	<b>2.91E-09</b>	<b>0.00E+00</b>	<b>7.04E-10</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.43E-11</b>	<b>3.45E-11</b>	<b>7.04E-10</b>
<b>MILK GOAT MAXIMUM LOCATION</b>								
AIR INHALATION	1.98E-10	0.00E+00	1.25E-11	0.00E+00	0.00E+00	5.43E-11	6.33E-13	1.25E-11
EXPOSURE TO SOIL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LEAFY VEGETABLE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PRODUCE CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MEAT CONSUMPTION	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GOAT MILK CONSUMPTION	5.70E-09	0.00E+00	1.45E-09	0.00E+00	0.00E+00	0.00E+00	7.12E-11	1.45E-09
<b>TOTAL</b>	<b>5.90E-09</b>	<b>0.00E+00</b>	<b>1.46E-09</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.43E-11</b>	<b>7.18E-11</b>	<b>1.46E-09</b>

TABLE 2-59

FIRST QUARTER 2004  
BATCH + CONTINUOUS RELEASES

POPULATION DOSE (50-MILE) FROM  
GASEOUS EFFLUENTS  
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AIR SUBMERSION	0.0E+00	0.0E+00
AIR INHALATION	0.0E+00	0.0E+00
EXPOSURE TO SOIL	0.0E+00	0.0E+00
LEAFY VEGETABLE CONSUMPTION	0.0E+00	0.0E+00
PRODUCE CONSUMPTION	0.0E+00	0.0E+00
MEAT CONSUMPTION	0.0E+00	0.0E+00
MILK CONSUMPTION	0.0E+00	0.0E+00
TOTAL	0.0E+00	0.0E+00
AVERAGE DOSE (MREM/PERSON)	0.0E+00	0.0E+00

TABLE 2-60

SECOND QUARTER 2004  
BATCH + CONTINUOUS RELEASES

POPULATION DOSE (50-MILE) FROM  
GASEOUS EFFLUENTS  
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AIR SUBMERSION	0.0E+00	0.0E+00
AIR INHALATION	0.0E+00	0.0E+00
EXPOSURE TO SOIL	0.0E+00	0.0E+00
LEAFY VEGETABLE CONSUMPTION	0.0E+00	0.0E+00
PRODUCE CONSUMPTION	0.0E+00	0.0E+00
MEAT CONSUMPTION	0.0E+00	0.0E+00
MILK CONSUMPTION	0.0E+00	0.0E+00
TOTAL	0.0E+00	0.0E+00
AVERAGE DOSE (MREM/PERSON)	0.0E+00	0.0E+00

TABLE 2-61

THIRD QUARTER 2004  
BATCH + CONTINUOUS RELEASES

POPULATION DOSE (50-MILE) FROM  
GASEOUS EFFLUENTS  
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AIR SUBMERSION	0.0E+00	0.0E+00
AIR INHALATION	2.0E-10	0.0E+00
EXPOSURE TO SOIL	4.2E-10	4.2E-10
LEAFY VEGETABLE CONSUMPTION	7.1E-11	0.0E+00
PRODUCE CONSUMPTION	3.8E-10	0.0E+00
MEAT CONSUMPTION	6.6E-11	0.0E+00
MILK CONSUMPTION	1.2E-09	0.0E+00
TOTAL	2.3E-09	4.2E-10
AVERAGE DOSE (MREM/PERSON)	1.1E-12	2.0E-13

TABLE 2-62

FOURTH QUARTER 2004  
BATCH + CONTINUOUS RELEASES

POPULATION DOSE (50-MILE) FROM  
GASEOUS EFFLUENTS  
(MAN-REM)

EXPOSURE PATHWAY	TOTAL BODY	THYROID
AIR SUBMERSION	0.0E+00	0.0E+00
AIR INHALATION	1.8E-10	0.0E+00
EXPOSURE TO SOIL	0.0E+00	0.0E+00
LEAFY VEGETABLE CONSUMPTION	6.6E-11	0.0E+00
PRODUCE CONSUMPTION	3.5E-10	0.0E+00
MEAT CONSUMPTION	5.7E-11	0.0E+00
MILK CONSUMPTION	8.9E-10	0.0E+00
TOTAL	1.5E-09	0.0E+00
AVERAGE DOSE (MREM/PERSON)	7.5E-13	0.0E+00

### **3. METEOROLOGICAL DATA**

Meteorological models and assumptions used in performing the analyses are presented in PGE-1021, "Offsite Dose Calculation Manual."

#### **4. CHANGES TO THE OFFSITE DOSE CALCULATION MANUAL (ODCM)**

##### **Requirement**

The Offsite Dose Calculation Manual is no longer required by Trojan Facility Operating License NPF-1, Appendix A, Permanently Defueled Technical Specifications, to be submitted as part of, or concurrent with, the Annual Radioactive Effluent Release Report. The ODCM is submitted with, or as part of, the Radiological Environmental Monitoring Report in accordance with PGE-8010, Quality Assurance Program, Appendix C, Section 1.5.1.2.

## 5. ASSESSMENT OF DOSES WITHIN THE UNRESTRICTED AREA BOUNDARY

An assessment of doses to individuals utilizing controlled areas within the Trojan Nuclear Plant Site Exclusion Area Boundary was performed for 2004. Specific locations considered included occupational areas outside the restricted area boundary and recreational (i.e., public access) areas located at the site. The methodology contained in Appendix D of PGE-1021, "Offsite Dose Calculation Manual (ODCM)," was followed. Occupancies of 2,000 hours per year for occupational locations, 1,530 hours per year for recreational locations, and 2,496 hours per year for the park host were assumed. Recreational activities (daytime only) are hiking, picnicking, swimming, fishing, and nature observation. Location directions and downwind distances are tabulated below:

**TABLE 5-1**

### ONSITE DOSE LOCATIONS CONSIDERED

<u>SECTOR</u>	<u>DISTANCE (meters)</u>	<u>LOCATION</u>	<u>ASSUMED OCCUPANCY (hours/year)</u>	<u>OCCUPANCY FACTOR (hours/8760)</u>
SSE	286	South Cooling Tower	1530	0.17
S	414	Sewage Plant	2000	0.23
SSW	305	Park	1530	0.17
SW	122	Administration Bldg.	2000	0.23
WSW	686	Visitor Center	1530	0.17
W	398	Warehouse	2000	0.23
WNW	300	Trojan North Bldg.	2000	0.23
SSW	1150	Park Host	2496	0.28

The methodology described in Appendix D of the ODCM allows for the use of a correction factor when performing an assessment of doses to individuals within the Unrestricted Area boundary. The correction factor is the highest ratio of the gamma air dose at a location within the Unrestricted Area boundary to the gamma air dose at the site boundary. Based on historical data, the highest correction factor for continuous releases is equal to 4.0. The gamma air dose for all locations within the Unrestricted Area boundary was determined by multiplying the gamma air dose at the site boundary by 4.0. This same methodology was also used to determine the beta air dose for all locations listed in Table 5-1.

The gamma and beta air dose within the Unrestricted Area boundary is given in Table 5-2.



**TABLE 5-2**

**GAMMA AND BETA AIR DOSE**

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<u>Quarter</u>	<u>Gamma Air Dose (mrad)</u>	<u>Beta Air Dose (mrad)</u>
First	0.00E+00	0.00E+00
Second	0.00E+00	0.00E+00
Third	0.00E+00	0.00E+00
Fourth	0.00E+00	0.00E+00

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## **6. DIRECT RADIATION DOSES FROM THE FACILITY**

Controlled/Unrestricted Area Thermoluminescent Dosimeter (TLD) measurements are used to assess the impact of operational activities of the Trojan Nuclear Plant on ambient radiation levels. For sources of direct radiation from the facility, TLD measurements indicate that total body doses to individuals in Unrestricted Areas are zero.

Trojan Nuclear Plant permits members of the public to have access to controlled areas of the site. Therefore, an assessment of the dose to a member of the public in the Controlled Area during 2004 was performed.

The highest dose rates during the year were measured at the North Industrial Area fence adjacent to the Independent Spent Fuel Storage Installation (ISFSI). The yearly average dose rate at this location was 2.05 millirem/day above background.

The North Industrial Area fence is considered accessible to members of the public. Therefore, a prospective evaluation of the area was performed to establish occupancy. It was determined that a member of the public would not occupy this area for more than 24 hours in a year. Therefore, the annual dose to a member of the public, due to his or her activities in the Controlled Area, is conservatively calculated to be 2.05 millirem.

**ATTACHMENT 1**

**SOLID WASTE SHIPPED OFFSITE FOR DISPOSAL AND ESTIMATES  
OF MAJOR NUCLIDES BY WASTE CLASS AND STREAM  
FROM JANUARY 1, 2004 TO DECEMBER 30, 2004**

# NRC Regulatory Guide 1.21 Reports

Report Date : 1/11/2005

Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream  
 During Period From 01/01/2004 to 06/30/2004 Percent Cutoff: 0

Resins, Filters, and Evap Bottom		
Waste Class A		
Nuclide Name	Percent Abundance	Curies
H-3	0.091%	4.49E-04
C-14	0.058%	2.88E-04
Mn-54	0.001%	5.71E-06
Fe-55	6.516%	3.21E-02
Co-57	0.001%	2.76E-06
Co-60	36.087%	1.78E-01
Ni-63	37.799%	1.86E-01
Sr-90	0.686%	3.38E-03
Nb-94	0.025%	1.23E-04
Sb-125	0.050%	2.44E-04
Cs-134	0.429%	2.11E-03
Cs-137	16.257%	8.00E-02
Ce-144	0.003%	1.72E-05
U-233	0.000%	2.89E-07
Pu-238	0.038%	1.86E-04
Pu-239	0.036%	1.79E-04
Pu-241	1.858%	9.14E-03
Am-241	0.036%	1.78E-04
Cm-242	0.000%	3.10E-07
Cm-243	0.028%	1.39E-04
Resins, Filters, and Evap Bottom		
Waste Class All		
Nuclide Name	Percent Abundance	Curies
H-3	0.091%	4.49E-04
C-14	0.058%	2.88E-04
Mn-54	0.001%	5.71E-06
Fe-55	6.516%	3.21E-02
Co-57	0.001%	2.76E-06
Co-60	36.087%	1.78E-01
Ni-63	37.799%	1.86E-01
Sr-90	0.686%	3.38E-03
Nb-94	0.025%	1.23E-04
Sb-125	0.050%	2.44E-04
Cs-134	0.429%	2.11E-03
Cs-137	16.257%	8.00E-02
Ce-144	0.003%	1.72E-05
U-233	0.000%	2.89E-07
Pu-238	0.038%	1.86E-04
Pu-239	0.036%	1.79E-04
Pu-241	1.858%	9.14E-03
Am-241	0.036%	1.78E-04
Cm-242	0.000%	3.10E-07
Cm-243	0.028%	1.39E-04
Dry Active Waste		
Waste Class A		

# NRC Regulatory Guide 1.21 Reports

Report Date : 1/11/2005

Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream  
 During Period From 01/01/2004 to 06/30/2004 Percent Cutoff: 0

Nuclide Name	Percent Abundance	Curies
H-3	0.092%	4.70E-04
C-14	0.100%	5.11E-04
Mn-54	0.000%	2.51E-06
Fe-55	3.672%	1.88E-02
Co-57	0.000%	1.47E-07
Co-60	8.671%	4.43E-02
Ni-63	23.074%	1.18E-01
Sr-90	0.232%	1.19E-03
Nb-94	0.016%	8.19E-05
Ru-106	0.150%	7.67E-04
Ag-110m	0.000%	3.24E-07
Sb-125	0.072%	3.70E-04
Cs-134	0.005%	2.51E-05
Cs-137	62.333%	3.18E-01
Ce-144	0.000%	6.00E-07
Eu-155	0.006%	3.06E-05
Pu-238	0.020%	1.01E-04
Pu-239	0.021%	1.08E-04
Pu-241	1.491%	7.62E-03
Am-241	0.025%	1.29E-04
Cm-242	0.000%	3.41E-11
Cm-243	0.017%	8.79E-05
<b>Dry Active Waste</b>		
<b>Waste Class All</b>		
Nuclide Name	Percent Abundance	Curies
H-3	0.092%	4.70E-04
C-14	0.100%	5.11E-04
Mn-54	0.000%	2.51E-06
Fe-55	3.672%	1.88E-02
Co-57	0.000%	1.47E-07
Co-60	8.671%	4.43E-02
Ni-63	23.074%	1.18E-01
Sr-90	0.232%	1.19E-03
Nb-94	0.016%	8.19E-05
Ru-106	0.150%	7.67E-04
Ag-110m	0.000%	3.24E-07
Sb-125	0.072%	3.70E-04
Cs-134	0.005%	2.51E-05
Cs-137	62.333%	3.18E-01
Ce-144	0.000%	6.00E-07
Eu-155	0.006%	3.06E-05
Pu-238	0.020%	1.01E-04
Pu-239	0.021%	1.08E-04
Pu-241	1.491%	7.62E-03
Am-241	0.025%	1.29E-04
Cm-242	0.000%	3.41E-11
Cm-243	0.017%	8.79E-05
<b>Other Waste</b>		

# NRC Regulatory Guide 1.21 Reports

Report Date : 1/11/2005

Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream  
 During Period From 01/01/2004 to 06/30/2004 Percent Cutoff: 0

Waste Class C		
Nuclide Name	Percent Abundance	Curies
H-3	0.109%	2.91E-04
Co-60	0.008%	2.13E-05
Kr-85	1.717%	4.59E-03
Sr-90	21.033%	5.63E-02
Ru-106	0.451%	1.21E-03
Sb-125	0.352%	9.41E-04
Te-125m	0.046%	1.22E-04
I-129	0.000%	3.24E-08
Cs-134	3.066%	8.21E-03
Cs-137	32.543%	8.71E-02
Ce-144	0.117%	3.12E-04
Pm-147	4.772%	1.28E-02
Eu-154	1.277%	3.42E-03
Eu-155	0.303%	8.10E-04
Pu-238	1.209%	3.24E-03
Pu-239	0.102%	2.74E-04
Pu-240	0.189%	5.06E-04
Pu-241	30.674%	8.21E-02
Am-241	0.598%	1.60E-03
Cm-244	1.434%	3.84E-03
Other Waste		
Waste Class All		
Nuclide Name	Percent Abundance	Curies
H-3	0.109%	2.91E-04
Co-60	0.008%	2.13E-05
Kr-85	1.717%	4.59E-03
Sr-90	21.033%	5.63E-02
Ru-106	0.451%	1.21E-03
Sb-125	0.352%	9.41E-04
Te-125m	0.046%	1.22E-04
I-129	0.000%	3.24E-08
Cs-134	3.066%	8.21E-03
Cs-137	32.543%	8.71E-02
Ce-144	0.117%	3.12E-04
Pm-147	4.772%	1.28E-02
Eu-154	1.277%	3.42E-03
Eu-155	0.303%	8.10E-04
Pu-238	1.209%	3.24E-03
Pu-239	0.102%	2.74E-04
Pu-240	0.189%	5.06E-04
Pu-241	30.674%	8.21E-02
Am-241	0.598%	1.60E-03
Cm-244	1.434%	3.84E-03
Sum of All 4 Categories		
Waste Class A		
Nuclide Name	Percent Abundance	Curies
H-3	0.092%	9.18E-04

NRC Regulatory Guide 1.21 Reports

Report Date : 1/11/2005

Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream  
 During Period From 01/01/2004 to 06/30/2004 Percent Cutoff: 0

C-14	0.080%	7.99E-04
Mn-54	0.001%	8.22E-06
Fe-55	5.068%	5.08E-02
Co-57	0.000%	2.91E-06
Co-60	22.124%	2.22E-01
Ni-63	30.300%	3.04E-01
Sr-90	0.455%	4.56E-03
Nb-94	0.020%	2.05E-04
Ru-106	0.076%	7.67E-04
Ag-110m	0.000%	3.24E-07
Sb-125	0.061%	6.14E-04
Cs-134	0.213%	2.14E-03
Cs-137	39.725%	3.98E-01
Ce-144	0.002%	1.78E-05
Eu-155	0.003%	3.06E-05
U-233	0.000%	2.89E-07
Pu-238	0.029%	2.87E-04
Pu-239	0.029%	2.86E-04
Pu-241	1.671%	1.68E-02
Am-241	0.031%	3.07E-04
Cm-242	0.000%	3.10E-07
Cm-243	0.023%	2.27E-04
Sum of All 4 Categories		
Waste Class C		
Nuclide Name	Percent Abundance	Curies
H-3	0.109%	2.91E-04
Co-60	0.008%	2.13E-05
Kr-85	1.717%	4.59E-03
Sr-90	21.033%	5.63E-02
Ru-106	0.451%	1.21E-03
Sb-125	0.352%	9.41E-04
Te-125m	0.046%	1.22E-04
I-129	0.000%	3.24E-08
Cs-134	3.066%	8.21E-03
Cs-137	32.543%	8.71E-02
Ce-144	0.117%	3.12E-04
Pm-147	4.772%	1.28E-02
Eu-154	1.277%	3.42E-03
Eu-155	0.303%	8.10E-04
Pu-238	1.209%	3.24E-03
Pu-239	0.102%	2.74E-04
Pu-240	0.189%	5.06E-04
Pu-241	30.674%	8.21E-02
Am-241	0.598%	1.60E-03
Cm-244	1.434%	3.84E-03
Sum of All 4 Categories		
Waste Class All		
Nuclide Name	Percent Abundance	Curies
H-3	0.095%	1.21E-03

# NRC Regulatory Guide 1.21 Reports

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Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream  
 During Period From 01/01/2004 to 06/30/2004 Percent Cutoff: 0

C-14	0.063%	7.99E-04
Mn-54	0.001%	8.22E-06
Fe-55	4.000%	5.08E-02
Co-57	0.000%	2.91E-06
Co-60	17.466%	2.22E-01
Ni-63	23.918%	3.04E-01
Kr-85	0.362%	4.59E-03
Sr-90	4.789%	6.09E-02
Nb-94	0.016%	2.05E-04
Ru-106	0.155%	1.97E-03
Ag-110m	0.000%	3.24E-07
Sb-125	0.122%	1.55E-03
Te-125m	0.010%	1.22E-04
I-129	0.000%	3.24E-08
Cs-134	0.814%	1.03E-02
Cs-137	38.212%	4.86E-01
Ce-144	0.026%	3.30E-04
Pm-147	1.005%	1.28E-02
Eu-154	0.269%	3.42E-03
Eu-155	0.066%	8.41E-04
U-233	0.000%	2.89E-07
Pu-238	0.277%	3.52E-03
Pu-239	0.044%	5.60E-04
Pu-240	0.040%	5.06E-04
Pu-241	7.780%	9.88E-02
Am-241	0.150%	1.91E-03
Cm-242	0.000%	3.10E-07
Cm-243	0.018%	2.27E-04
Cm-244	0.302%	3.84E-03



# NRC Regulatory Guide 1.21 Reports

Report Date : 1/11/2005

Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream  
 During Period From 07/01/2004 to 12/30/2004 Percent Cutoff: 0

Dry Active Waste		
Waste Class A		
Nuclide Name	Percent Abundance	Curies
H-3	0.196%	1.24E-04
C-14	0.271%	1.72E-04
Mn-54	0.002%	1.03E-06
Fe-55	8.923%	5.67E-03
Co-57	0.000%	2.98E-08
Co-60	19.723%	1.25E-02
Ni-63	61.526%	3.91E-02
Sr-90	0.620%	3.94E-04
Nb-94	0.012%	7.38E-06
Ru-106	0.009%	5.66E-06
Ag-110m	0.000%	1.48E-07
Sb-125	0.223%	1.42E-04
Cs-134	0.018%	1.15E-05
Cs-137	3.812%	2.42E-03
Ce-144	0.000%	2.41E-07
Eu-155	0.022%	1.40E-05
Pu-238	0.056%	3.58E-05
Pu-239	0.059%	3.74E-05
Pu-241	4.447%	2.82E-03
Am-241	0.048%	3.08E-05
Cm-242	0.000%	3.40E-12
Cm-243	0.032%	2.05E-05
Dry Active Waste		
Waste Class All		
Nuclide Name	Percent Abundance	Curies
H-3	0.196%	1.24E-04
C-14	0.271%	1.72E-04
Mn-54	0.002%	1.03E-06
Fe-55	8.923%	5.67E-03
Co-57	0.000%	2.98E-08
Co-60	19.723%	1.25E-02
Ni-63	61.526%	3.91E-02
Sr-90	0.620%	3.94E-04
Nb-94	0.012%	7.38E-06
Ru-106	0.009%	5.66E-06
Ag-110m	0.000%	1.48E-07
Sb-125	0.223%	1.42E-04
Cs-134	0.018%	1.15E-05
Cs-137	3.812%	2.42E-03
Ce-144	0.000%	2.41E-07
Eu-155	0.022%	1.40E-05
Pu-238	0.056%	3.58E-05
Pu-239	0.059%	3.74E-05
Pu-241	4.447%	2.82E-03
Am-241	0.048%	3.08E-05
Cm-242	0.000%	3.40E-12

# NRC Regulatory Guide 1.21 Reports

Report Date : 1/11/2005

Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream  
 During Period From 07/01/2004 to 12/30/2004 Percent Cutoff: 0

Cm-243	0.032%	2.05E-05
Other Waste		
Waste Class A		
Nuclide Name	Percent Abundance	Curies
H-3	0.000%	9.61E-09
C-14	0.000%	9.56E-08
Fe-55	0.003%	3.04E-06
Co-60	0.006%	6.49E-06
Ni-63	0.021%	2.16E-05
Sr-90	0.000%	3.36E-08
Tc-99	0.000%	2.06E-07
Ru-106	0.000%	5.46E-10
Cs-137	99.969%	1.03E-01
Ce-144	0.000%	2.25E-11
Pu-238	0.000%	3.13E-09
Pu-239	0.000%	4.79E-09
Pu-241	0.000%	2.51E-07
Am-241	0.000%	2.59E-07
Cm-243	0.000%	1.47E-09
Other Waste		
Waste Class All		
Nuclide Name	Percent Abundance	Curies
H-3	0.000%	9.61E-09
C-14	0.000%	9.56E-08
Fe-55	0.003%	3.04E-06
Co-60	0.006%	6.49E-06
Ni-63	0.021%	2.16E-05
Sr-90	0.000%	3.36E-08
Tc-99	0.000%	2.06E-07
Ru-106	0.000%	5.46E-10
Cs-137	99.969%	1.03E-01
Ce-144	0.000%	2.25E-11
Pu-238	0.000%	3.13E-09
Pu-239	0.000%	4.79E-09
Pu-241	0.000%	2.51E-07
Am-241	0.000%	2.59E-07
Cm-243	0.000%	1.47E-09
Sum of All 4 Categories		
Waste Class A		
Nuclide Name	Percent Abundance	Curies
H-3	0.075%	1.24E-04
C-14	0.103%	1.72E-04
Mn-54	0.001%	1.03E-06
Fe-55	3.408%	5.67E-03
Co-57	0.000%	2.98E-08
Co-60	7.533%	1.25E-02
Ni-63	23.499%	3.91E-02
Sr-90	0.237%	3.94E-04

# NRC Regulatory Guide 1.21 Reports

Report Date : 1/11/2005

Solid Waste Shipped Offsite for Disposal and Estimates of Major Nuclides by Waste Class and Stream  
 During Period From 07/01/2004 to 12/30/2004 Percent Cutoff: 0

Nb-94	0.004%	7.38E-06
Tc-99	0.000%	2.06E-07
Ru-106	0.003%	5.66E-06
Ag-110m	0.000%	1.48E-07
Sb-125	0.085%	1.42E-04
Cs-134	0.007%	1.15E-05
Cs-137	63.263%	1.05E-01
Ce-144	0.000%	2.41E-07
Eu-155	0.008%	1.40E-05
Pu-238	0.022%	3.58E-05
Pu-239	0.022%	3.74E-05
Pu-241	1.698%	2.83E-03
Am-241	0.019%	3.10E-05
Cm-242	0.000%	3.40E-12
Cm-243	0.012%	2.05E-05
<b>Sum of All 4 Categories</b>		
<b>Waste Class All</b>		
<b>Nuclide Name</b>	<b>Percent Abundance</b>	<b>Curies</b>
H-3	0.075%	1.24E-04
C-14	0.103%	1.72E-04
Mn-54	0.001%	1.03E-06
Fe-55	3.408%	5.67E-03
Co-57	0.000%	2.98E-08
Co-60	7.533%	1.25E-02
Ni-63	23.499%	3.91E-02
Sr-90	0.237%	3.94E-04
Nb-94	0.004%	7.38E-06
Tc-99	0.000%	2.06E-07
Ru-106	0.003%	5.66E-06
Ag-110m	0.000%	1.48E-07
Sb-125	0.085%	1.42E-04
Cs-134	0.007%	1.15E-05
Cs-137	63.263%	1.05E-01
Ce-144	0.000%	2.41E-07
Eu-155	0.008%	1.40E-05
Pu-238	0.022%	3.58E-05
Pu-239	0.022%	3.74E-05
Pu-241	1.698%	2.83E-03
Am-241	0.019%	3.10E-05
Cm-242	0.000%	3.40E-12
Cm-243	0.012%	2.05E-05