

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

C Number:	C88034B
Lock Date:	03/24/1993
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	10/05/1993

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CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 801

TRT#: 1

SEX: Male

DAY ON TEST: 610

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Larynx	* Parathyroid Gland
* Prostate	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 6-5]			
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 15,16-1]			
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Leukemia Mononuclear TGLS = 5-5]			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13,14-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
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First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 801

TRT#: 1

SEX: Male

DAY ON TEST: 610

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25151

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-7]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-6+15]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Leukemia Mononuclear	
* Pancreas		Atrophy	Moderate
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-8]		
* Preputial Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 17-16]		
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Keratoacanthoma	
		Leukemia Mononuclear	
	[Keratoacanthoma TGLS = 11-11]		
	[Leukemia Mononuclear TGLS = 12-12]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7,8-13+14]		
* Stomach, Forestomach		Leukemia Mononuclear	
		Necrosis	Mild
* Stomach, Glandular		Leukemia Mononuclear	
		Necrosis	Moderate
	[Necrosis TGLS = 18-17]		
* Testes		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-7]		

* PROTOCOL REQUIRED TISSUE

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Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
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First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 801	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 610 HISTO: 25151
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Leukemia Mononuclear
* Thyroid Gland	C Cell	Adenoma
		Leukemia Mononuclear
* Urinary Bladder		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 802

TRT#: 1

SEX: Male

DAY ON TEST: 585

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Necrosis	Mild
[Necrosis TGLS = 3-11]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 802

TRT#: 1

SEX: Male

DAY ON TEST: 585

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25152

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 803

TRT#: 1

SEX: Male

DAY ON TEST: 591

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Astrocytoma Malignant	
[Astrocytoma Malignant TGLS = 1-1]			
* Epididymis		Granuloma Sperm	Mild
[Granuloma Sperm TGLS = 6-7+13]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 5-12]			
* Lymph Node, Mesenteric		Ectasia	Moderate
[Ectasia TGLS = 4-11]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 7-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 803	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 591 HISTO: 25153
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ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Inflammation	Chronic Active, Mild
* Testes	Interstit Cell	Adenoma Atrophy	Marked
[Adenoma TGLS = 3-7] [Atrophy TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Brain Astrocytoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 804

TRT#: 1
DOSE: CONTROL

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 705
HISTO: 25154

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mesenteric
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney	Renal Tubule	Adenoma	
		Liposarcoma	
		Nephropathy	Moderate
		[Nephropathy TGLS = 4-5]	
* Liver		Angiectasis	Minimal
		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-4]	
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 3-8]	
* Preputial Gland		Inflammation	Chronic Active, Moderate
		[Inflammation TGLS = 6-12]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 804	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 705 HISTO: 25154
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
* Skin		Inflammation Keratoacanthoma	Chronic Active, Moderate
	[Inflammation TGLS = 1-11] [Keratoacanthoma TGLS = 7-13]		
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma Atrophy	Marked
	[Atrophy TGLS = 2-7]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 805 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 663
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Mineralization	Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Skin		Hyperkeratosis	Marked
[Hyperkeratosis TGLS = 1-11]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-12]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 806 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 621
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25156

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Parathyroid Gland	Penis
* Preputial Gland	* Prostate	* Salivary Glands	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
	Atrium	Thrombosis	Moderate
	[Thrombosis TGLS = 10-4+11]		
* Kidney		Leukemia Mononuclear	
	[Nephropathy TGLS = 8-5]	Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
	[Leukemia Mononuclear TGLS = 5-4]	Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-7]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Leukemia Mononuclear	
		Thrombosis	Mild
* Pancreas		Atrophy	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 806

TRT#: 1

SEX: Male

DAY ON TEST: 621

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25156

ORGAN AND ACCOUNTABLE SITE STATUS

Penis

Note: "Distended" penis was normal microscopically.

* Pituitary Gland

Pars Distalis

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 3-8]

* Seminal Vesicle

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 11-15]

* Skin

Keratoacanthoma

[Keratoacanthoma TGLS = 9-16]

* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

[Fibrosis TGLS = 7-13]

[Leukemia Mononuclear TGLS = 6-12]

* Stomach, Glandular

Leukemia Mononuclear

* Testes

Interstit Cell

Adenoma

Atrophy

Moderate

Interstit Cell

Hyperplasia

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 807

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Minimal
* Epididymis		Granuloma Sperm	Moderate
[Granuloma Sperm TGLS = 5-12]			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Moderate
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 4-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Spleen		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
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Species/Strain: Rat/F 344/N

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Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 807	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 674 HISTO: 25157
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 2-4]			
* Stomach, Forestomach		Necrosis	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal
	Artery	Inflammation	Chronic Active, Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
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Species/Strain: Rat/F 344/N

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Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 808

TRT#: 1

SEX: Male

DAY ON TEST: 580

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 3-5]		
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-4]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 808	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 580 HISTO: 25158
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]

* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 809 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 625
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25159

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Mammary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Mild
* Epididymis		Schwannoma Malignant	Metastatic (Mesentery)
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	
		Mineralization	Mild
		Nephropathy	Marked
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Moderate
Note: Liver was pale due to anemia secondary to massive neoplasia in mesentery. [Necrosis TGLS = 8-20]			
* Lung	Alveolar Epith	Hyperplasia	Marked
		Inflammation	Chronic Active, Minimal
[Hyperplasia TGLS = 7-19]			
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-7]			
* Lymph Node, Mesenteric		Schwannoma Malignant	Metastatic (Mesentery)
[Schwannoma Malignant TGLS = 5-6+22]			
Mesentery		Schwannoma Malignant	
[Schwannoma Malignant TGLS = 2,3-11+12+13+14+15+16+17]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 809

TRT#: 1

SEX: Male

DAY ON TEST: 625

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25159

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
		Schwannoma Malignant	Metastatic (Mesentery)
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-8]			
* Seminal Vesicle		Schwannoma Malignant	Metastatic (Mesentery)
[Schwannoma Malignant TGLS = 9-21]			
Skeletal Muscle		Schwannoma Malignant	Metastatic (Mesentery)
[Schwannoma Malignant TGLS = 6-18]			
* Stomach, Glandular		Mineralization	Mild
* Testes		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mesentery Schwannoma Malignant

CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 810

TRT#: 1

SEX: Male

DAY ON TEST: 663

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25160

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Marked
	[Thrombosis TGLS = 5-4]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-12]	Necrosis	Mild
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 1-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 810	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 663 HISTO: 25160
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ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia Leukemia Mononuclear	Mild
	Lateral Wall	Metaplasia Thrombosis	Squamous, Mild Marked
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
	[Adenoma TGLS = 6-8]		
* Spleen		Fibrosis Leukemia Mononuclear	Moderate
	[Fibrosis TGLS = 3-11]		
	[Leukemia Mononuclear TGLS = 2-11]		
* Stomach, Forestomach		Necrosis	Minimal
* Stomach, Glandular		Necrosis	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 811 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 830
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Moderate
[Fibrous Osteodystrophy TGLS = 2-11]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
		Polyp Adenomatous	
* Intestine Large, Colon			
[Polyp Adenomatous TGLS = 14-18]			
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Nephropathy	Marked
[Cyst TGLS = 15-14]			
[Nephropathy TGLS = 9-5]			
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 811 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 830
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25161

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5,6-4+12]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-16]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-6+17]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 10-15]			
* Nose	Olfactory Epi	Degeneration Inflammation Leukemia Mononuclear	Hyaline, Minimal Suppurative, Marked
	Lateral Wall	Metaplasia	Squamous, Marked
	Olfactory Epi	Metaplasia	Minimal
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 4-8]			
* Spleen		Fibrosis Leukemia Mononuclear	Moderate
[Fibrosis TGLS = 8-14]			
[Leukemia Mononuclear TGLS = 7-13]			
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 11-7]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:11
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 812

TRT#: 1

SEX: Male

DAY ON TEST: 669

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 4-5]		
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 812 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 669
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25162

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
	Olfactory Epi	Metaplasia	Minimal
		Thrombosis	Moderate
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 2-8]		
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-11]		
* Stomach, Glandular		Mineralization	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 813 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 586
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Mild
* Kidney		Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver		Basophilic Focus	
* Lung		Hemorrhage	Moderate
		Mineralization	Mild
[Hemorrhage TGLS = 1-3]			
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 4-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Olfactory Epi	Metaplasia	Minimal
* Pancreas		Hyperplasia	Mild
	Artery	Inflammation	Marked
		Thrombosis	Mild
[Inflammation TGLS = 5-12]			
* Parathyroid Gland		Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 813	TRT#: 1	SEX: Male	DAY ON TEST: 586
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25163

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 6-2]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Stomach, Forestomach		Mineralization	Mild
* Stomach, Glandular		Mineralization	Moderate
* Testes	Artery	Inflammation	Chronic Active, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 814 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 708
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 10-1]	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Marked
		[Nephropathy TGLS = 7-5]	
* Liver		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 8-15]	
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 814 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 708
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25164

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal [Leukemia Mononuclear TGLS = 11-2]		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 9-14]		Leukemia Mononuclear	
* Nose	Olfactory Epi Lateral Wall	Degeneration Hyperplasia Leukemia Mononuclear	Hyaline, Mild Minimal
* Pancreas	Olfactory Epi	Metaplasia	Moderate
* Pituitary Gland	Pars Distalis	Atrophy Adenoma Leukemia Mononuclear	Mild
[Adenoma TGLS = 2-8]			
* Skin		Hyperkeratosis Keratoacanthoma	Moderate
Note: There were numerous clusters of sebaceous cells beneath the squamous epithelium.			
[Hyperkeratosis TGLS = 1-11]			
[Keratoacanthoma TGLS = 3-15]			
* Spleen [Leukemia Mononuclear TGLS = 6-13]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear Necrosis	Moderate
* Stomach, Glandular		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4,5-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 815

TRT#: 1

SEX: Male

DAY ON TEST: 797

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland	* Salivary Glands
* Spleen	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
Blood Vessel	Aorta	Mineralization	Marked
[Mineralization TGLS = 2-4]			
* Bone		Fibrous Osteodystrophy	Marked
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Moderate
* Intestine Large, Colon		Mineralization	Moderate
[Mineralization TGLS = 15-6]			
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 8-4]			
* Kidney		Mineralization	Marked
		Nephropathy	Marked
		Oncocytoma Benign	
[Nephropathy TGLS = 9-5]			
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Degeneration	Cystic, Mild
Note: The "2 dark 1-2mm foci" in right lobe may have been blood in normal hepatic vasculature.			
[Degeneration TGLS = 11-12]			
* Lung	Artery, Mediastinum	Mineralization	Marked
		Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 815 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 797
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25165

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node [Hemorrhage TGLS = 12-13]	Renal	Hemorrhage	Mild
Mesentery	Artery	Mineralization	Marked
* Nose	Olfactory Epi Lateral Wall	Degeneration Hyperplasia Inflammation	Hyaline, Minimal Minimal Suppurative, Mild
* Pancreas		Atrophy Hyperplasia	Mild Mild
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland [Adenoma TGLS = 4,5-8]	Pars Distalis	Adenoma	
* Prostate		Hyperplasia	Mild
* Seminal Vesicle		Mineralization	Moderate
* Skin [Hyperkeratosis TGLS = 13-11]		Hyperkeratosis	Moderate
* Stomach, Forestomach		Mineralization	Moderate
* Stomach, Glandular [Mineralization TGLS = 14-8]		Mineralization	Marked
* Testes [Adenoma TGLS = 6-14] [Atrophy TGLS = 7-7]	Interstit Cell	Adenoma Atrophy	Moderate
* Thyroid Gland [Carcinoma TGLS = 3-2]	Follicular Cel C Cell	Carcinoma Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 816 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 674
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25166

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Preputial Gland	* Seminal Vesicle
* Spleen	* Thymus	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Marked
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Cyst	Moderate
	Renal Tubule	Hyperplasia	Mild
		Mineralization	Moderate
		Nephropathy	Marked
[Cyst TGLS = 5-12]			
[Nephropathy TGLS = 4-5]			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Marked
[Mineralization TGLS = 7-3]			
Mesentery	Artery	Mineralization	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Inflammation	Suppurative, Minimal
* Pancreas	Artery	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 816 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 674
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25166

ORGAN AND ACCOUNTABLE SITE STATUS

[Mineralization TGLS = 6-13]			
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
		Mineralization	Mild
[Adenoma TGLS = 1-8]			
* Prostate		Hyperplasia	Mild
* Salivary Glands	Artery	Mineralization	Moderate
* Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 2-11]			
* Stomach, Forestomach		Mineralization	Marked
* Stomach, Glandular		Mineralization	Marked
* Testes	Interstit Cell	Adenoma	
	Artery	Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 3-7]			
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Mild
* Trachea		Mineralization	Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 817

TRT#: 1

SEX: Male

DAY ON TEST: 663

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
[Mineralization TGLS = 8-4]			
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
[Cardiomyopathy TGLS = 9-11]			
* Intestine Large, Colon		Mineralization	Moderate
[Mineralization TGLS = 11-6+14]			
* Intestine Small, Ileum		Mineralization	Mild
* Kidney		Mineralization	Marked
		Nephropathy	Marked
[Nephropathy TGLS = 5-5]			
* Larynx		Mineralization	Moderate
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Degeneration	Cystic, Moderate
		Degeneration	Fatty, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
[Degeneration TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 817 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 663
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25167

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 2-4]			
[Hepatodiaphragmatic Nodule TGLS = 3-12]			
* Lung	Artery, Mediastinum	Mineralization	Marked
		Mineralization	Marked
[Mineralization TGLS = 1-3]			
Mesentery	Artery	Mineralization	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Marked
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
* Seminal Vesicle		Mineralization	Moderate
* Stomach, Forestomach		Mineralization	Mild
[Mineralization TGLS = 10-8]			
* Stomach, Glandular		Mineralization	Moderate
[Mineralization TGLS = 10-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6,7-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 818

TRT#: 1

SEX: Male

DAY ON TEST: 591

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Larynx	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Cardiomyopathy	Minimal
* Islets, Pancreatic		Parasite Metazoan	
* Kidney		Adenoma	
		Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy	Moderate
		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-12]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Lateral Wall	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 818	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 591 HISTO: 25168
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 819

TRT#: 1

SEX: Male

DAY ON TEST: 661

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25169

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla	Bilateral	Leukemia Mononuclear Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7,8-1]		
* Heart		Cardiomyopathy Leukemia Mononuclear	Moderate
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney	Pelvis	Inflammation Leukemia Mononuclear Nephropathy	Acute, Mild Marked
	[Nephropathy TGLS = 10-5]		
* Liver	Bile Duct	Basophilic Focus Hyperplasia Leukemia Mononuclear	Moderate
* Lung		Leukemia Mononuclear	
Lymph Node	Renal	Leukemia Mononuclear Leukemia Mononuclear	
	Note: Lymph node with no site was hepatic lymph node.		
	[Leukemia Mononuclear TGLS = 13-12]		
	[Leukemia Mononuclear TGLS = 5-13]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 819 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 661
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25169

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal [Leukemia Mononuclear TGLS = 9-2]		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 6-6+12]		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration Leukemia Mononuclear	Hyaline, Minimal
* Pancreas		Atrophy Leukemia Mononuclear	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Mild
* Preputial Gland [Leukemia Mononuclear TGLS = 1-7]		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic Active, Moderate
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 3-11] [Necrosis TGLS = 4-11]		Fibrosis Leukemia Mononuclear Necrosis	Mild Moderate
* Stomach, Forestomach [Leukemia Mononuclear TGLS = 11-8] [Necrosis TGLS = 12-8]		Leukemia Mononuclear Necrosis	Marked
* Stomach, Glandular		Leukemia Mononuclear Necrosis	Minimal
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 820

TRT#: 1

SEX: Male

DAY ON TEST: 485

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyms	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-13]			
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 3-14]			
* Spleen		Sarcoma	
[Sarcoma TGLS = 2-11+12]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 821

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Larynx	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Skin	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLS = 6-13]		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Leukemia Mononuclear TGLS = 5-5]		
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-4]		
* Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 12-14]		
	[Leukemia Mononuclear TGLS = 10-16]		
	[Leukemia Mononuclear TGLS = 11-17]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 821 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 722
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25171

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-15]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Leukemia Mononuclear	
* Pancreas		Atrophy	Moderate
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-8]			
* Prostate		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 8-12]			
[Leukemia Mononuclear TGLS = 7-12]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes		Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Atrophy TGLS = 9-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-8]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 823

TRT#: 1

SEX: Male

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25173

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	Penis	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Thymus	* Trachea

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
[Mineralization TGLS = 10-4]			
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Marked
[Mineralization TGLS = 1-11]			
* Intestine Large, Colon		Mineralization	Mild
[Mineralization TGLS = 8-6]			
* Intestine Small, Ileum		Mineralization	Mild
* Kidney	Transit Epithe	Hyperplasia	Mild
		Mineralization	Marked
		Nephropathy	Marked
[Nephropathy TGLS = 5-5]			
* Larynx		Mineralization	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 823 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 666
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25173

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 11-4]			
* Lung	Artery, Mediastinum	Leukemia Mononuclear Mineralization Mineralization Thrombosis	Marked Mild Moderate
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 6-14]			
Mesentery	Artery	Mineralization	Moderate
	Fat	Necrosis	Mild
[Necrosis TGLS = 13-14]			
* Nose	Lateral Wall	Inflammation	Suppurative, Moderate
	Olfactory Epi	Metaplasia	Squamous, Mild
		Metaplasia	Moderate
		Thrombosis	Minimal
* Pancreas		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Marked
Penis			
Note: Penis was normal microscopically.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Prostate		Inflammation	Chronic Active, Marked
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-11]			
* Stomach, Forestomach		Mineralization	Moderate
[Mineralization TGLS = 9-8]			
* Stomach, Glandular		Mineralization	Marked
[Mineralization TGLS = 9,12-8+13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Marked
	Artery	Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 823	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 666 HISTO: 25173
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: The adenomas were quite small, so the atrophy was diagnosed as it was not due to pressure secondary to the tumors.

[Atrophy TGLS = 3-7]

* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
		Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 824 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 632
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Thymus
* Thyroid Gland	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 7-5]			
Blood Vessel	Aorta	Mineralization	Marked
* Bone		Fibrous Osteodystrophy	Moderate
[Fibrous Osteodystrophy TGLS = 14-10+11]			
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Moderate
[Mineralization TGLS = 4,16-4]			
* Intestine Large, Colon		Mineralization	Mild
[Mineralization TGLS = 13-6+15]			
* Intestine Small, Ileum		Mineralization	Mild
* Kidney		Cyst	Moderate
		Mineralization	Moderate
		Nephropathy	Marked
[Cyst TGLS = 8-5]			
[Nephropathy TGLS = 6-5]			
* Larynx		Mineralization	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
		Degeneration	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 824 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 632
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25174

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Artery, Mediastinum	Mineralization Mineralization	Marked Moderate
[Mineralization TGLS = 2-3]			
[Mineralization TGLS = 3-2]			
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 17-16]			
Mesentery	Artery	Mineralization	Moderate
* Nose	Olfactory Epi	Degeneration Inflammation	Hyaline, Mild Suppurative, Moderate
	Lateral Wall	Metaplasia Thrombosis	Squamous, Moderate Mild
* Pancreas		Atrophy	Mild
[Mineralization TGLS = 9-13]	Artery	Mineralization	Mild
* Parathyroid Gland		Hyperplasia	Marked
[Hyperplasia TGLS = 15-2]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 11-14]			
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-12]			
* Stomach, Forestomach		Mineralization	Mild
[Mineralization TGLS = 12-8]			
* Stomach, Glandular		Mineralization	Moderate
[Mineralization TGLS = 12-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 10-7]			
* Trachea		Mineralization	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 825

TRT#: 1

SEX: Male

DAY ON TEST: 585

DOSE: CONTROL

DISP: Natural Death

HISTO: 25175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
[Nephropathy TGLS = 5-5]			
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 2-8]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 825

TRT#: 1

SEX: Male

DAY ON TEST: 585

DOSE: CONTROL

DISP: Natural Death

HISTO: 25175

ORGAN AND ACCOUNTABLE SITE STATUS

Note: "Deformity" seen grossly was normal variation in shape of spleen, emphasized by presence of leukemia.

[Leukemia Mononuclear TGLS = 3-11]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 7-7]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 826

TRT#: 1

SEX: Male

DAY ON TEST: 468

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Hemangiosarcoma	Metastatic (Tongue)
		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Atrophy	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
Tongue		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 2,3-11]			

PRIMARY CAUSE OF DEATH

- Tongue Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 827

TRT#: 1

SEX: Male

DAY ON TEST: 691

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Larynx	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLS = 6-12]		
* Bone		Fibrous Osteodystrophy	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Mineralization	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 7-5]		
* Liver		Degeneration	Cystic, Minimal
		Degeneration	Fatty, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
		Mineralization	Mild
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 827	TRT#: 1	SEX: Male	DAY ON TEST: 691
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25177

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactocele	Mild
[Galactocele TGLS = 3-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Leukemia Mononuclear	
Penis		Metaplasia	Squamous, Moderate
[Inflammation TGLS = 2-15]		Inflammation	Acute, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-11]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 11-7]			

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Kidney	Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 828

TRT#: 1

SEX: Male

DAY ON TEST: 761

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Moderate
* Intestine Large, Colon		Parasite Metazoan	
* Kidney	Renal Tubule	Hyperplasia	Moderate
	Renal Tubule	Hyperplasia	Oncocytic, Moderate
		Mineralization	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 7-5]		
* Larynx		Mineralization	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Hepatodiaphragmatic Nodule	
	[Degeneration TGLS = 5-4]		
	[Hepatodiaphragmatic Nodule TGLS = 4,6-13+12]		
* Lung	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Moderate
	[Mineralization TGLS = 1-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 828	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 761 HISTO: 25178
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	Artery	Mineralization	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Hyperplasia	Moderate
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 8-11]			
* Stomach, Forestomach		Mineralization	Mild
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 829

TRT#: 1

SEX: Male

DAY ON TEST: 670

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
	Atrium	Thrombosis	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
[Leukemia Mononuclear TGLS = 2-4]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 829	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 670 HISTO: 25179
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Thrombosis Adenoma Leukemia Mononuclear	Moderate
* Preputial Gland * Spleen [Leukemia Mononuclear TGLS = 3-4]		Inflammation Leukemia Mononuclear	Chronic Active, Moderate
* Testes [Adenoma TGLS = 4-7]	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 830 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 733
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Leukemia Mononuclear	
* Bone Marrow		Pheochromocytoma Benign	
* Heart		Leukemia Mononuclear	
		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 7-5]		
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 6-4]		
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Mild
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Lateral Wall	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 830

TRT#: 1
DOSE: CONTROL

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 733
HISTO: 25180

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
		Thrombosis	Mild
* Pituitary Gland	Pars Distalis	Atrophy	Moderate
		Adenoma	
	[Adenoma TGLS = 2-8]	Leukemia Mononuclear	
* Skin		Inflammation	Chronic Active, Marked
	[Inflammation TGLS = 8-11]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 5-12]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 832

TRT#: 1

SEX: Male

DAY ON TEST: 683

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Marked
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 5-5]		
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
* Lung	Artery, Mediastinum	Thrombosis	Mild
	[Thrombosis TGLS = 9-2]		
* Lym Node Mesen			
	Note: Mesenteric lymph nodes were within normal limits microscopically.		
Lymph Node	Renal	Hemorrhage	Mild
	Note: Pancreatic lymph node was within normal limits microscopically.		
	[Hemorrhage TGLS = 7-16]		
* Mammary Gland		Galactoceles	Mild
	[Galactoceles TGLS = 1-14]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Adenoma	
		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 832	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 683 HISTO: 25182
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 8-11]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-12]			
* Stomach, Glandular		Necrosis	Mild
[Necrosis TGLS = 10-13]			
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 833

TRT#: 1

SEX: Male

DAY ON TEST: 681

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25183

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Larynx	Lymph Node	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Moderate
			[Nephropathy TGLS = 4-5]
* Liver		Degeneration	Fatty, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
			Lymph Node
			Note: "Enlarged" iliac lymph node was within normal limits for an active lymph node.
			Note: "Enlarged" renal lymph node was within normal limits for an active lymph node.
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLS = 1-8]
* Skin		Hyperkeratosis	Mild
		Inflammation	Chronic Active, Marked
			[Hyperkeratosis TGLS = 7-14]
			[Inflammation TGLS = 2-11]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 833	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 681 HISTO: 25183
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 3-7]	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Marked
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 835 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 583
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
[Cardiomyopathy TGLS = 2-11]			
[Thrombosis TGLS = 1-11]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
		Thrombosis	Marked
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Adenoma	
* Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 835	TRT#: 1	SEX: Male	DAY ON TEST: 583
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25185

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear
[Fibrosis TGLS = 3-4]		
* Testes	Interstit Cell	Adenoma
[Adenoma TGLS = 5-7]		
* Thyroid Gland	C Cell	Carcinoma
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 837

TRT#: 1

SEX: Male

DAY ON TEST: 718

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
	Atrium	Thrombosis	Mild
* Intestine Large, Cecum		Leukemia Mononuclear	
		Mineralization	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 8-5]		
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 7-4]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 837	TRT#: 1	SEX: Male	DAY ON TEST: 718
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25187

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Leukemia Mononuclear Thrombosis	Hyaline, Mild Moderate
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Moderate
* Preputial Gland [Inflammation TGLS = 3-7]		Inflammation	Chronic Active, Mild
* Prostate		Hyperplasia	Moderate
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen [Fibrosis TGLS = 6-11]		Fibrosis Leukemia Mononuclear	Moderate
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4,5-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH		- Spleen Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 838

TRT#: 1

SEX: Male

DAY ON TEST: 580

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
* Bone		Fibrous Osteodystrophy	Marked
* Heart	Artery	Cardiomyopathy	Moderate
		Mineralization	Moderate
		Mineralization	Mild
* Kidney	Renal Tubule	Adenoma	
		Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-11]			
* Lung		Mineralization	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Inflammation	Suppurative, Moderate
* Pancreas		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 838	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 580 HISTO: 25188
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach [Necrosis TGLS = 5-12]		Necrosis	Mild
* Stomach, Glandular		Mineralization	Moderate
* Testes [Atrophy TGLS = 4-7]	Artery	Atrophy Inflammation	Minimal Chronic Active, Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 839

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
[Nephropathy TGLS = 5-5]			
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactoceles	Moderate
		Hyperplasia	Atypical, Mild
[Galactoceles TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 839

TRT#: 1
DOSE: CONTROL

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 598
HISTO: 25189

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
	[Adenoma TGLS = 2-8]		
* Skin		Inflammation	Chronic Active, Moderate
	[Inflammation TGLS = 6-11]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-12]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Moderate
	[Hyperplasia TGLS = 7-2]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 840

TRT#: 1

SEX: Male

DAY ON TEST: 600

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Coagulating Gland	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Mammary Gland	* Pancreas
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Pigmentation	Hemosiderin, Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
		[Nephropathy TGLS = 5-5]	
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Leukemia Mononuclear	
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-3]	
Lymph Node	Renal	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-14]	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 8-6]	
Mesentery		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 840	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 600 HISTO: 25190
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Inflammation Leukemia Mononuclear	Hyaline, Minimal Suppurative, Moderate
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland		Leukemia Mononuclear	
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 7-11]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Urin Bladder			

Note: "Calculus" was normal secretion from accessory sex glands.

PRIMARY CAUSE OF DEATH	- Kidney	Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 841

TRT#: 1

SEX: Male

DAY ON TEST: 599

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 7-5]			
* Liver		Basophilic Focus	
[Degeneration TGLS = 6-4]		Degeneration	Fatty, Moderate
* Lung			
Note: Lungs were "red" due to normal pooling of blood in vessels.			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-11]			
* Prostate		Inflammation	Chronic Active, Moderate
* Skin		Fibrosis	Moderate
[Fibrosis TGLS = 10-14]			
* Stomach, Forestomach		Necrosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 841	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 599 HISTO: 25191
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular [Necrosis TGLS = 11-8+12]		Necrosis	Moderate
* Testes [Adenoma TGLS = 9-7]	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Minimal
* Urinary Bladder		Inflammation	Chronic Active, Moderate

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 842

TRT#: 1

SEX: Male

DAY ON TEST: 615

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Parathyroid Gland
* Preputial Gland	* Prostate	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 4-5]		
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-4]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 842	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 615 HISTO: 25192
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Mesothelioma Malignant TGLS = 7-12]		Mesothelioma Malignant	
* Nose	Olfactory Epi	Degeneration Leukemia Mononuclear Thrombosis	Hyaline, Mild Minimal
* Pancreas		Atrophy Leukemia Mononuclear Mesothelioma Malignant	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Minimal
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 5-11]		Fibrosis Leukemia Mononuclear	Marked
* Testes [Adenoma TGLS = 6-7]	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia Leukemia Mononuclear	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 843

TRT#: 1

SEX: Male

DAY ON TEST: 766

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Pituitary Gland	* Salivary Glands	* Spleen
* Thymus	* Thyroid Gland	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
	[Mineralization TGLS = 2-4]		
* Bone		Fibrous Osteodystrophy	Moderate
* Heart	Artery	Mineralization	Moderate
	Atrium	Thrombosis	Moderate
	[Thrombosis TGLS = 9-4]		
* Intestine Large, Cecum		Inflammation	Acute, Moderate
* Intestine Small, Ileum		Inflammation	Acute, Mild
* Kidney		Hyperplasia	Oncocytic, Mild
		Mineralization	Mild
	[Nephropathy TGLS = 6-5]	Nephropathy	Marked
* Larynx		Mineralization	Moderate
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
	Bile Duct	Hyperplasia	Mild
	Note: "Dark foci, 1-2mm diameter" were blood in normal hepatic vasculature.		
	[Degeneration TGLS = 4-4]		
* Lung		Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 843	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 766 HISTO: 25193
ORGAN AND ACCOUNTABLE SITE STATUS			
	Artery, Mediastinum	Inflammation Mineralization Mineralization Necrosis	Chronic Active, Mild Marked Mild Moderate
Note: Necrosis & hemorrhage were secondary to chronic renal failure. [Hemorrhage TGLS = 3-11] [Necrosis TGLS = 3-11]			
* Mammary Gland		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration Inflammation	Hyaline, Minimal Suppurative, Mild
	Lateral Wall	Metaplasia Hyperplasia Inflammation	Squamous, Moderate Marked Chronic Active, Moderate
* Parathyroid Gland			
* Preputial Gland			
[Inflammation TGLS = 10-7]			
* Prostate		Hyperplasia	Mild
* Seminal Vesicle		Mineralization	Mild
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 11-13]			
* Stomach, Forestomach		Necrosis	Mild
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7,8-7]			
* Trachea		Mineralization	Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 844

TRT#: 1
DOSE: CONTROL

SEX: Male
DISP: Natural Death

DAY ON TEST: 651
HISTO: 25194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 3-5+14]		
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Thrombosis	Mild
	[Hepatodiaphragmatic Nodule TGLS = 6-13]		
* Lung		Congestion	Chronic, Marked
	[Congestion TGLS = 2-3]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 5-15]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Lateral Wall	Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Inflammation	Chronic Active, Moderate
	[Inflammation TGLS = 1-11]		
* Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 844	TRT#: 1	SEX: Male	DAY ON TEST: 651
	DOSE: CONTROL	DISP: Natural Death	HISTO: 25194

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 4-4]		
* Testes	Interstit Cell	Adenoma
[Adenoma TGLS = 7-7]		

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 845

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
Eye		Degeneration	Marked
Note: Degeneration included marked retinal atrophy, marked cataract, posterior synechia, and moderate chronic active keratitis.			
[Degeneration TGLS = 2-13]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Focal, Mild
[Hyperplasia TGLS = 5-12]			
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 845

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25195

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Prostate		Inflammation	Chronic Active, Mild
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 1-11]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 10-12]			
[Leukemia Mononuclear TGLS = 4-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7-7]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 846

TRT#: 1
DOSE: CONTROL

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 484
HISTO: 25196

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland
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OBSERVATIONS

* Brain	Meninges	Granular Cell Tumor Benign	
[Granular Cell Tumor Benign TGLS = 3-1+11]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Spleen	Note: "Focus, pale, 2mm diameter" was not apparent microscopically.		
* Stomach, Glandular		Necrosis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Brain Meninges Granular Cell Tumor Benign
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 848

TRT#: 1

SEX: Male

DAY ON TEST: 539

DOSE: CONTROL

DISP: Natural Death

HISTO: 25198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mesentery		Mesothelioma Malignant	
	Fat	Necrosis	Mild
	[Mesothelioma Malignant TGLS = 1,2,3-11+14+6]		
	[Necrosis TGLS = 5-13]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland		Thrombosis	Moderate
* Seminal Vesicle		Mesothelioma Malignant	
* Spleen		Mesothelioma Malignant	
* Stomach, Forestomach		Mesothelioma Malignant	
* Stomach, Glandular		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 4-12]		
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 849

TRT#: 1

SEX: Male

DAY ON TEST: 481

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Parathyroid Gland	Penis	* Preputial Gland	* Prostate
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy	Mild
		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-3]	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Thrombosis	Minimal
* Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
Penis			
		Note: Penis was extended from prepuce but was normal microscopically.	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 849	TRT#: 1	SEX: Male	DAY ON TEST: 481
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25199

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
* Stom Gland			
Note: "Nodule" was normal variation in contour of stomach's wall.			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 850

TRT#: 1
DOSE: CONTROL

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 467
HISTO: 25200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 851

TRT#: 1
DOSE: CONTROL

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 636
HISTO: 25201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-4]		
* Lung		Leukemia Mononuclear	
* Lym Node Media			
	Note: "Enlarged 3-6mm" mediastinal LN was actually fat & thymus.		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-11]		
	[Leukemia Mononuclear TGLS = 9-12]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 851	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 636 HISTO: 25201
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic Active, Minimal
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 10-13]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 6-11]			
[Leukemia Mononuclear TGLS = 5-11]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 852

TRT#: 1

SEX: Male

DAY ON TEST: 521

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 4-11]		
* Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-13]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 852	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 521 HISTO: 25202
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Moderate
* Spleen [Leukemia Mononuclear TGLS = 2-12]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-7]	Interstit Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 853 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 544
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 1,2,3-11+13+14]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney	Pelvis	Dilatation	Mild
		Leukemia Mononuclear	
[Dilatation TGLS = 5-5]		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 7-4]	Centrilobular	Necrosis	Mild
* Lung		Leukemia Mononuclear	
		Osteosarcoma	Metastatic (Bone)
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 853	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 544 HISTO: 25203
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Moderate
* Prostate		Inflammation	Chronic Active, Marked
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-12]			
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
[Adenoma TGLS = 8-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hemorrhage	Marked
[Hemorrhage TGLS = 4-15]			

PRIMARY CAUSE OF DEATH	- Bone Osteosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 854

TRT#: 1

SEX: Male

DAY ON TEST: 580

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Islets, Pancreatic		Carcinoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-4]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-12]			
[Leukemia Mononuclear TGLS = 10-13]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-6]			
* Mammary Gland		Galactocele	Moderate
[Galactocele TGLS = 1-14]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 854	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 580 HISTO: 25204
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Leukemia Mononuclear	
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-8]		
* Skin		Inflammation	Chronic Active, Moderate
	[Inflammation TGLS = 5-11]		
* Spleen		Hemorrhage	Marked
	[Hemorrhage TGLS = 7-16]		
	[Leukemia Mononuclear TGLS = 6-17]		
* Testes		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 856

TRT#: 1

SEX: Male

DAY ON TEST: 793

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 8-5]		
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Nephropathy TGLS = 7-5]		
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Thrombosis	Minimal
	[Hyperplasia TGLS = 10-4]		
	[Leukemia Mononuclear TGLS = 9,11-4+12]		
* Lung		Leukemia Mononuclear	
Lymph Node	Iliac	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 856

TRT#: 1

SEX: Male

DAY ON TEST: 793

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25206

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 13-14]

[Leukemia Mononuclear TGLS = 12-15]

* Lymph Node, Mediastinal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-2]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 14-6]

* Nose

Olfactory Epi

Degeneration

Hyaline, Mild

Lateral Wall

Metaplasia

Squamous, Minimal

* Pancreas

Atrophy

Mild

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

[Fibrosis TGLS = 5-11]

[Leukemia Mononuclear TGLS = 4-11]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2,3-7]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1001

TRT#: 3

SEX: Male

DAY ON TEST: 755

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
[Mineralization TGLS = 4-4]			
* Bone		Fibrous Osteodystrophy	Moderate
Note: The "5mm rib nodule" was not remarkable microscopically and was most likely an enlarged costo-chondral junction, secondary to chronic renal disease.			
* Heart		Cardiomyopathy	Mild
	Artery	Mineralization	Moderate
	Atrium	Thrombosis	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Mild
		Mineralization	Mild
		Nephropathy	Marked
[Cyst TGLS = 7-5]			
[Nephropathy TGLS = 5-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1001	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 755 HISTO: 25375
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	Artery	Mineralization	Moderate
	Artery	Inflammation	Chronic Active, Marked
		Mineralization	Moderate
[Inflammation TGLS = 6-6+13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Moderate
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Prostate		Inflammation	Chronic Active, Mild
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-4]			
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
[Hyperplasia TGLS = 9-8+14]			
* Stomach, Glandular		Mineralization	Moderate
* Testes		Atrophy	Moderate
	Artery	Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 8-7]			
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1002

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 650
HISTO: 25376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

MISSING

* Lymph Node, Mesenteric	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 7-15]			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Leukemia Mononuclear	
		Nephropathy	Marked
[Nephropathy TGLS = 8-5]			
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 6,10,11-11+12+13]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
[Leukemia Mononuclear TGLS = 1-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1002 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 650
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25376

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node [Leukemia Mononuclear TGLS = 4-14]	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
Mesentery [Necrosis TGLS = 3-16]	Fat	Necrosis	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Leukemia Mononuclear	
* Pancreas		Metaplasia	Squamous, Mild
* Parathyroid Gland		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 2-8]			
* Spleen [Leukemia Mononuclear TGLS = 5-14]		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Polymorphnuclr, Mild
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1003

TRT#: 3

SEX: Male

DAY ON TEST: 401

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum * Larynx

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Inflammation	Acute, Moderate
* Intestine Small, Duodenum		Inflammation	Acute, Marked
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lym Node Mesen			
Note: Mesenteric lymph node was normal active node draining area of inflammation in intestine.			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Thrombosis	Marked

[Adenoma TGLS = 1-8]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1004

TRT#: 3

SEX: Male

DAY ON TEST: 705

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLS = 6-4]		
* Lung	Interstitialium	Fibrosis	Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
	[Leukemia Mononuclear TGLS = 5-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1004	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 705 HISTO: 25378
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 4-12]	Fat	Necrosis	Mild
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Leukemia Mononuclear	Hyaline, Mild Mild Mild
* Pancreas	Lateral Wall	Metaplasia	Squamous, Mild
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Atrophy Adenoma	Minimal
* Spleen [Leukemia Mononuclear TGLS = 2-11]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1005

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 648
HISTO: 25379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 3-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Necrosis	Moderate
	[Necrosis TGLS = 4-4]		
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	
	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 1-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1005	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 648 HISTO: 25379
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Mild Mild Mild Squamous, Mild
* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma	
Pleura [Alveolar/Bronchiolar Carcinoma TGLS = 5-11]		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Testes	Artery	Inflammation	Chronic Active, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Lung Alveolar/Bronchiolar Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1006

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 419
HISTO: 25380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Adrenal Cortex	* Adrenal Medulla	* Thymus
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Fatty, Minimal
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-12]			
* Stomach, Forestomach		Diverticulum	
[Diverticulum TGLS = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1007

TRT#: 3

SEX: Male

DAY ON TEST: 623

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Mild
	Artery	Mineralization	Minimal
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Moderate
* Kidney		Nephropathy	Marked
		[Nephropathy TGLS = 3-5+11]	
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Minimal
		Note: "1mm dark foci" were blood in normal hepatic vasculature.	
* Lung		Carcinoma	Metastatic (Thyroid Gland)
	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
Lymph Node	Renal	Hemorrhage	Mild
		[Hemorrhage TGLS = 4-12]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1007	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 623 HISTO: 25381
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Goblet Cell, Lateral Wall Lateral Wall	Hyperplasia Hyperplasia Atrophy Hyperplasia	Minimal Mild Minimal Mild
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Stomach, Forestomach		Necrosis	Marked
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland [Carcinoma TGLS = 6-2]	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1008

TRT#: 3

SEX: Male

DAY ON TEST: 636

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Thymsus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
Eye		Degeneration	Moderate
Note: Degeneration includes moderate cataract, marked retinal atrophy, posterior synechia, mild corneal mineralization, & minimal chronic active keratitis.			
[Degeneration TGLS = 2-13]			
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 5-5+11]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Minimal
[Degeneration TGLS = 4-4]			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1008	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 636 HISTO: 25382
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Lateral Wall	Metaplasia	Squamous, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Adenoma TGLS = 3-8]		Adenoma	
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-12]			
* Stomach, Forestomach		Mineralization	Minimal
		Necrosis	Moderate
* Stomach, Glandular		Necrosis	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	Artery	Inflammation	Chronic Active, Mild

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1009

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 605
HISTO: 25383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain			
Note: "Cerebrum, dilatation" was secondary to pituitary adenoma.			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1009	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 605 HISTO: 25383
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1010

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 586
HISTO: 25384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: "Tissue NOS-mass" was a piece of liver adhered to diaphragm; it had the same lesions as in the routine liver sections (leukemia, bile duct hyperplasia). [Leukemia Mononuclear TGLS = 4-4]			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lym Node Bron			
Note: "Enlarged (3mm diameter)" bronchial lymph node could not be found in the block or wet tissue.			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1010	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 586 HISTO: 25384
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Atrophy	Minimal
* Spleen		Adenoma	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1011

TRT#: 3

SEX: Male

DAY ON TEST: 719

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney	Renal Tubule	Adenoma	
		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Mild
		[Leukemia Mononuclear TGLS = 4-4]	
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1011	TRT#: 3	SEX: Male	DAY ON TEST: 719
	DOSE: 0.5 PPM	DISP: Moribund Sacrifice	HISTO: 25385

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-11]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1012

TRT#: 3

SEX: Male

DAY ON TEST: 515

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Fatty, Moderate
[Degeneration TGLS = 3-4]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
Lymph Node	Lumbar	Hemorrhage	Minimal
[Hemorrhage TGLS = 5-12]			
* Lymph Node, Mandibular		Hemorrhage	Minimal
[Hemorrhage TGLS = 6-7]			
* Lymph Node, Mediastinal		Hemorrhage	Minimal
[Hemorrhage TGLS = 1-2]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Stomach, Forestomach		Necrosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1012	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 515 HISTO: 25386
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ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 7,8-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1013

TRT#: 3

SEX: Male

DAY ON TEST: 775

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Preputial Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla	Bilateral	Leukemia Mononuclear	
	Aorta	Pheochromocytoma Benign	
Blood Vessel		Mineralization	Minimal
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 4-5+16]			
* Larynx		Mineralization	Minimal
* Liver		Degeneration	Cystic, Marked
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Degeneration TGLS = 1,2,3-11+12+13]			
[Leukemia Mononuclear TGLS = 1,2,3-11+12+13]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1013 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 775
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25387

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Hyperplasia	Mild
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
	[Fibrosis TGLS = 6-14]		
	[Leukemia Mononuclear TGLS = 5,7-14+15]		
* Stomach, Forestomach		Mineralization	Mild
* Stomach, Glandular		Mineralization	Marked
* Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
	[Adenoma TGLS = 9-7]		
	[Atrophy TGLS = 8-7]		
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1014

TRT#: 3

SEX: Male

DAY ON TEST: 521

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Bone		Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
Eye	Retina	Atrophy	Marked
		Cataract	Moderate
[Cataract TGLS = 3-13]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Leukemia Mononuclear TGLS = 6-4]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1014 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 521
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25388

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-15]			
[Leukemia Mononuclear TGLS = 7-14]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Skin		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1015

TRT#: 3

SEX: Male

DAY ON TEST: 674

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Islets, Pancreatic		Carcinoma	
* Kidney	Renal Tubule	Hyperplasia	Oncocytic, Moderate
		Leukemia Mononuclear	
		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1015	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 674 HISTO: 25389
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ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolar Epith	Metaplasia	Mild
	[Leukemia Mononuclear TGLS = 1-3]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Moderate
		Thrombosis	Mild
* Pancreas		Atrophy	Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
		Leukemia Mononuclear	
* Spleen		Hemorrhage	Moderate
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 3-11]		
	[Leukemia Mononuclear TGLS = 2-11]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-7]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1016

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 384
HISTO: 25390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pituitary Gland	* Preputial Gland
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OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Moderate
* Skin		Inflammation	Chronic Active, Marked
	[Inflammation TGLS = 2-7]		
* Testes		Atrophy	Moderate

PRIMARY CAUSE OF DEATH	- UNCERTAIN
CONTRIBUTORY CAUSE OF DEATH	- Skin Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1017

TRT#: 3

SEX: Male

DAY ON TEST: 439

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
* Pancreas		Atrophy	Moderate
Penis		Inflammation	Acute, Moderate
	[Inflammation TGLS = 1-12]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urin Bladder			

Note: Bladder was distended but microscopically normal.

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1017

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 439
HISTO: 25391

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Penis Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1018

TRT#: 3

SEX: Male

DAY ON TEST: 733

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Mineralization	Mild
		Necrosis	Mild
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Moderate
* Intestine Large, Cecum	Artery	Inflammation	Chronic Active, Moderate
* Kidney		Leukemia Mononuclear	
		Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 7-5+12]			
* Liver		Angiectasis	Mild
		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Angiectasis TGLS = 8-4]			
[Leukemia Mononuclear TGLS = 3-4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1018 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 733
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25392

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Leukemia Mononuclear Metaplasia Mineralization	Mild Moderate
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Artery	Mineralization	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia Inflammation Leukemia Mononuclear	Mild Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
	[Adenoma TGLS = 2-8]		
* Seminal Vesicle		Mineralization	Mild
* Skin	Prepuce	Inflammation	Acute, Moderate
	[Inflammation TGLS = 1-13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4,5-11]		
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6-7]		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy
 CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1019

TRT#: 3

SEX: Male

DAY ON TEST: 525

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
[Hyperplasia TGLS = 3-5]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 2-11]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1019

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 525
HISTO: 25393

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Preputial Gland	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1020	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 666 HISTO: 25394
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Parathyroid Gland	* Salivary Glands
* Skin	* Trachea		

MISSING

* Mammary Gland	* Preputial Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Mesothelioma Malignant	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-4]	
* Lung		Leukemia Mononuclear	
	Mediastinum	Mesothelioma Malignant	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-2]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Mesothelioma Malignant	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1020	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 666 HISTO: 25394
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ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia Leukemia Mononuclear	Moderate
* Pancreas	Lateral Wall	Metaplasia Atrophy Leukemia Mononuclear Mesothelioma Malignant	Squamous, Mild Mild
Penis [Inflammation TGLS = 1-11]		Inflammation	Acute, Moderate
Peritoneum [Mesothelioma Malignant TGLS = 10-6+7+8]		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear Mesothelioma Malignant	
Skeletal Muscle		Mesothelioma Malignant	
* Spleen [Fibrosis TGLS = 6,7-13] [Leukemia Mononuclear TGLS = 5-12]		Fibrosis Leukemia Mononuclear Mesothelioma Malignant	Moderate
* Stomach, Forestomach		Leukemia Mononuclear Mesothelioma Malignant	
* Stomach, Glandular		Leukemia Mononuclear Mesothelioma Malignant	
* Testes	Interstit Cell	Adenoma Leukemia Mononuclear Mesothelioma Malignant	
[Adenoma TGLS = 8,9-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1020

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 666
HISTO: 25394

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1021

TRT#: 3

SEX: Male

DAY ON TEST: 571

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Metaplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1022

TRT#: 3

SEX: Male

DAY ON TEST: 601

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 5-5]		
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Fibrosis	Mild
	Interstitialium	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
	[Leukemia Mononuclear TGLS = 2-3]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-12]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1022	TRT#: 3	SEX: Male	DAY ON TEST: 601
	DOSE: 0.5 PPM	DISP: Moribund Sacrifice	HISTO: 25396

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
[Necrosis TGLS = 8-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
	Lateral Wall	Leukemia Mononuclear	
	Olfactory Epi	Metaplasia	Squamous, Minimal
		Metaplasia	Mild
		Thrombosis	Minimal
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Necrosis	Marked
[Necrosis TGLS = 3-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-11]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1023

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 345
HISTO: 25397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Thymoma Malignant	Metastatic (Thymus)
[Thymoma Malignant TGLS = 4-4]			
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Metaplasia	Minimal
[Thymoma Malignant TGLS = 5-3]		Thymoma Malignant	Metastatic (Thymus)
Mesentery		Thymoma Malignant	Metastatic (Thymus)
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thymus		Thymoma Malignant	
[Thymoma Malignant TGLS = 1,3-12+11]			

PRIMARY CAUSE OF DEATH - Thymus Thymoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1023

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 345
HISTO: 25397

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Lung Thymoma Malignant Thymus

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1024

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 607
HISTO: 25398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
* Pancreas		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Stomach, Forestomach		Necrosis	Mild
[Necrosis TGLS = 4-11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1024

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 607
HISTO: 25398

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1026 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 681
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Marked
	[Thrombosis TGLS = 7-11]		
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
	[Nephropathy TGLS = 5-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
		Degeneration	Fatty, Moderate
	[Degeneration TGLS = 3-4]		
	[Degeneration TGLS = 4-4]		
* Lung		Congestion	Chronic, Moderate
	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
Lymph Node	Renal	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1026	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 681 HISTO: 25400
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 6-12]			
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Minimal Minimal Mild Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell Follicular Cel	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Heart Atrium Thrombosis;Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1027

TRT#: 3

SEX: Male

DAY ON TEST: 219

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx
* Nose			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Heart		Inflammation	Chronic Active, Marked
Note: Areas of inflammation contained bacterial colonies.			
* Liver	Centrilobular	Necrosis	Marked
[Necrosis TGLS = 6-4]			
* Lung		Foreign Body	
		Hemorrhage	Moderate
		Inflammation	Suppurative, Marked
Note: "Foreign body" was bacterial colonies.			
[Hemorrhage TGLS = 3-3]			
[Inflammation TGLS = 7-3]			
* Lymph Node, Bronchial		Hemorrhage	Mild
[Hemorrhage TGLS = 2-3]			
* Lymph Node, Mediastinal		Hemorrhage	Moderate
[Hemorrhage TGLS = 1-2]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 5-4]			
* Testes			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1027

TRT#: 3

SEX: Male

DAY ON TEST: 219

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25401

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Left testis was pale due to post mortem autolysis.

* Urin Bladder

Note: "Calculus" was normal secretion from accessory sex glands.

PRIMARY CAUSE OF DEATH

- Heart Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1028

TRT#: 3

SEX: Male

DAY ON TEST: 516

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Larynx	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-1]			
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx			
Note: Foam in laryngeal lumen was due to post mortem autolysis.			
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1028	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 516 HISTO: 25402
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal [Leukemia Mononuclear TGLS = 3-2]		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration Inflammation	Hyaline, Minimal Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear Hyperplasia	Mild
* Spleen [Leukemia Mononuclear TGLS = 5-11]		Leukemia Mononuclear Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1029

TRT#: 3

SEX: Male

DAY ON TEST: 642

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Stomach, Glandular	* Trachea	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-1]			
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
[Cardiomyopathy TGLS = 3-4]			
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
[Leukemia Mononuclear TGLS = 8-5]			
* Larynx		Leukemia Mononuclear	
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Leukemia Mononuclear TGLS = 7-4]			
* Lung		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
[Leukemia Mononuclear TGLS = 1-3]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1029 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 642
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25403

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal [Leukemia Mononuclear TGLS = 2-2]		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 11-12]		Leukemia Mononuclear	
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Leukemia Mononuclear Thrombosis	Hyaline, Mild Minimal Mild Moderate
* Pancreas		Atrophy Leukemia Mononuclear Leukemia Mononuclear	Moderate Moderate
Penis [Leukemia Mononuclear TGLS = 4-14]		Leukemia Mononuclear Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin [Fibroma TGLS = 9-13]	Subcut Tiss	Fibroma	
* Spleen [Leukemia Mononuclear TGLS = 5-11]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 6-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1030

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 621
HISTO: 25404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
Note: "Granular" appearance was normal lobular pattern of liver			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Prostate		Inflammation	Chronic Active, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1030

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 621
HISTO: 25404

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1031

TRT#: 3

SEX: Male

DAY ON TEST: 719

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Adenoma	
		Cyst	Mild
		Nephropathy	Marked
		[Cyst TGLS = 5-11]	
		[Nephropathy TGLS = 4-5+11]	
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
		[Angiectasis TGLS = 3-4]	
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
		Note: "Dark mottled" appearance was due to blood in normal pulmonary vasculature.	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1031	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 719 HISTO: 25405
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ORGAN AND ACCOUNTABLE SITE STATUS

	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1032

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Moderate
* Epididymis		Sarcoma	Metastatic (Uncertain Primary Site)
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Mild
* Intestine Large, Colon		Sarcoma	Metastatic (Uncertain Primary Site)
[Sarcoma TGLS = 8-18]			
* Kidney		Cyst	Mild
		Mineralization	Minimal
		Nephropathy	Marked
		Sarcoma	Metastatic (Uncertain Primary Site)
[Cyst TGLS = 14-5]			
[Sarcoma TGLS = 10-5+13]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Degeneration	Cystic, Mild
		Sarcoma	Metastatic (Uncertain Primary Site)
[Angiectasis TGLS = 13-11]			
[Sarcoma TGLS = 6-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1032 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 684
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25406

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Interstitium Alveolus Alveolar Epith	Fibrosis Infiltration Cellular Metaplasia Mineralization	Mild Histiocyte, Minimal Mild Minimal
* Lymph Node, Mediastinal Mesentery [Sarcoma TGLS = 3,7-20+16]		Sarcoma Sarcoma	Metastatic (Uncertain Primary Site) Metastatic (Uncertain Primary Site)
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia	Hyaline, Minimal Minimal Minimal
* Pancreas [Sarcoma TGLS = 9-19]		Sarcoma	Metastatic (Uncertain Primary Site)
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Seminal Vesicle Skeletal Muscle [Sarcoma TGLS = 5-21]		Mineralization Sarcoma	Minimal Metastatic (Uncertain Primary Site)
* Skin [Inflammation TGLS = 2-17]		Inflammation	Chronic Active, Moderate
* Spleen [Sarcoma TGLS = 4-14+15]		Sarcoma	Metastatic (Uncertain Primary Site)
* Stomach, Forestomach		Necrosis Sarcoma	Moderate Metastatic (Uncertain Primary Site)
* Stomach, Glandular		Mineralization Sarcoma	Moderate Metastatic (Uncertain Primary Site)
* Testes [Adenoma TGLS = 11,12-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mesentery Sarcoma Uncertain Primary Site
 CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

Animal Note: In a few sites, the sarcoma formed bone, which may have been metaplastic instead of neoplastic.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1033

TRT#: 3

SEX: Male

DAY ON TEST: 433

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Necrosis	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Small, Duodenum		Inflammation	Acute, Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Moderate
		Necrosis	Moderate
Note: Areas of necrosis were infarcts. [Necrosis TGLS = 3-4+12+13]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Metaplasia	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1,2-11+15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
		Thrombosis	Marked
* Pancreas		Atrophy	Mild
		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1033	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 433 HISTO: 25407
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ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 1,4-11+14]

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Testes		Atrophy	Mild
		Mesothelioma Malignant	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Pancreas Inflammation
CONTRIBUTORY CAUSE OF DEATH	- Liver Necrosis; Mesentery Fat Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1035

TRT#: 3

SEX: Male

DAY ON TEST: 495

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Complex	
[Pheochromocytoma Complex TGLS = 2-11]			
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1036

TRT#: 3

SEX: Male

DAY ON TEST: 548

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLS = 4-4]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1036	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 548 HISTO: 25410
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ORGAN AND ACCOUNTABLE SITE STATUS

	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Minimal
		Thrombosis	Mild
* Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
Skeletal Muscle		Mesothelioma Malignant	
	Note: Skeletal muscle was abdominal wall. [Mesothelioma Malignant TGLS = 2-12]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-13]		
* Stomach, Forestomach		Mesothelioma Malignant	
* Stomach, Glandular		Necrosis	Moderate
	[Necrosis TGLS = 5-11]		
* Testes	Interstit Cell	Adenoma	
		Atrophy	Marked
		Mesothelioma Malignant	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1037

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 531
HISTO: 25411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
	Bile Duct	Hyperplasia	Minimal
[Angiectasis TGLS = 4-11]			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1039

TRT#: 3

SEX: Male

DAY ON TEST: 847

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Mild
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 6-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Degeneration TGLS = 5-4]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1039	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 847 HISTO: 25413
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ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node [Hemorrhage TGLS = 7-11]	Renal	Hemorrhage	Mild
Mesentery	Artery	Mineralization	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Basophilic Focus	
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Prostate		Adenoma	
* Spleen [Fibrosis TGLS = 4-4]		Fibrosis	Mild
		Leukemia Mononuclear	
* Stomach, Glandular		Mineralization	Moderate
* Testes [Adenoma TGLS = 2,3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1040

TRT#: 3

SEX: Male

DAY ON TEST: 524

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
Lymph Node	Renal	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3,4-5]	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1040	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 524 HISTO: 25414
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1042

TRT#: 3

SEX: Male

DAY ON TEST: 628

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 4-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
	[Leukemia Mononuclear TGLS = 3-4]		
	[Necrosis TGLS = 5,6-4]		
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 12-6+14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1042	TRT#: 3	SEX: Male	DAY ON TEST: 628
	DOSE: 0.5 PPM	DISP: Moribund Sacrifice	HISTO: 25416

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 13-7]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
	[Necrosis TGLS = 9-13]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Leukemia Mononuclear	
* Pancreas		Metaplasia	Squamous, Minimal
		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-8]		
* Prostate		Inflammation	Chronic Active, Marked
	[Inflammation TGLS = 11-8]		
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 7,10-15+12]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-11]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 8-7]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1043

TRT#: 3

SEX: Male

DAY ON TEST: 608

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 2-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1043

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 608
HISTO: 25417

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1044

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 581
HISTO: 25418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-7]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1044	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 581 HISTO: 25418
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
* Pituitary Gland		Atrophy	Mild
		Leukemia Mononuclear	
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-11]			
[Leukemia Mononuclear TGLS = 3-12]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1045

TRT#: 3

SEX: Male

DAY ON TEST: 581

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Parathyroid Gland	* Preputial Gland	* Skin
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Lymph Node, Mandibular	* Mammary Gland	* Salivary Glands
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Mesothelioma Malignant	
* Intestine Small, Duodenum		Mesothelioma Malignant	
* Kidney		Mesothelioma Malignant	
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
	[Leukemia Mononuclear TGLS = 2-4]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
	[Alveolar/Bronchiolar Adenoma TGLS = 4-11]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 1-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1045 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 581
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25419

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia	Hyaline, Mild Mild Mild
* Pancreas		Atrophy Mesothelioma Malignant	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	
* Spleen		Leukemia Mononuclear Mesothelioma Malignant	
* Stomach, Forestomach		Mesothelioma Malignant	
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Mild
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1046

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 735
HISTO: 25420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Mammary Gland	Penis	* Preputial Gland	* Prostate
* Salivary Glands	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Leukemia Mononuclear	
* Bone Marrow		Pheochromocytoma Benign	
* Heart		Leukemia Mononuclear	
		Cardiomyopathy	Moderate
	Atrium	Leukemia Mononuclear	
* Kidney		Thrombosis	Moderate
		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 6-5]		
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
		Degeneration	Cystic, Mild
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Hepatodiaphragmatic Nodule TGLS = 9-12]		
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1046 **TRT#:** 3 **SEX:** Male **DAY ON TEST:** 735
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25420

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolar Epith	Metaplasia	Minimal
		Mineralization	Minimal
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-7]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Moderate
		Thrombosis	Moderate
* Pancreas		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Moderate
Penis			
	Note: "Distended" penis was normal microscopically.		
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Keratoacanthoma	
		Squamous Cell Papilloma	
	[Keratoacanthoma TGLS = 8-13]		
	[Squamous Cell Papilloma TGLS = 4-14]		
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Necrosis	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 7-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1046

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 735
HISTO: 25420

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1048

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 699
HISTO: 25422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Vacuolization Cytoplasmic	Focal, Moderate
	[Vacuolization Cytoplasmic TGLS = 4-4]		
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		
* Stomach, Forestomach		Necrosis	Minimal
* Stomach, Glandular		Inflammation	Acute, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1048

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 699
HISTO: 25422

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
[Adenoma TGLS = 3-7]

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1050

TRT#: 3

SEX: Male

DAY ON TEST: 701

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Degeneration	Fatty, Moderate
	Bile Duct	Hyperplasia	Mild
[Degeneration TGLS = 2-4]			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Renal	Pigmentation	Mild
[Pigmentation TGLS = 5-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1050	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 25424
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ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Inflammation TGLS = 7-7]		Inflammation	Chronic Active, Mild
* Spleen Note: "Enlarged, 4.5x1 cm" spleen was within normal limits microscopically.			
* Stomach, Forestomach		Necrosis	Marked
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1051

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 411
HISTO: 25425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Leukemia Mononuclear	
		Metaplasia	Minimal
	[Leukemia Mononuclear TGLS = 1-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gl			
	Note: A change corresponding to the "pale focus" described at necropsy was not apparent microscopically.		
* Preputial Gland		Carcinoma	
	[Carcinoma TGLS = 3-7]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1051	TRT#: 3	SEX: Male	DAY ON TEST: 411
	DOSE: 0.5 PPM	DISP: Moribund Sacrifice	HISTO: 25425

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-11]	Necrosis	Marked
[Necrosis TGLS = 5-12]		
* Stom Forestom		
Note: "Blue" appearance of forestomach was most likely due to anemia secondary to leukemia.		
* Testes	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	C Cell	Hyperplasia
		Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1052

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 4-5]		
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 5-12]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
	[Alveolar/Bronchiolar Adenoma TGLS = 2-11]		
Lymph Node	Renal	Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1052	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 695 HISTO: 25426
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 6-14]			
* Nose	Olfactory Epi Lateral Wall	Degeneration Hyperplasia Hyperplasia	Hyaline, Mild Mild Moderate
* Parathyroid Gland			
[Hyperplasia TGLS = 1-2]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Necrosis	Marked
[Necrosis TGLS = 7,8-8+13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell Follicular Cel	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1053

TRT#: 3

SEX: Male

DAY ON TEST: 722

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Astrocytoma Benign	
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 1-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Degeneration	Fatty, Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-4]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1053

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 722
HISTO: 25427

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9-7]

* Lymph Node, Mediastinal

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 8-6+12]

* Nose

Olfactory Epi
 Goblet Cell, Lateral Wall
 Lateral Wall

Degeneration
 Hyperplasia
 Hyperplasia

Hyaline, Mild
 Mild
 Mild

Leukemia Mononuclear

Lateral Wall

Metaplasia

Squamous, Minimal

* Pituitary Gland

Pars Distalis

Hyperplasia

Mild

Leukemia Mononuclear

* Preputial Gland

Carcinoma

[Carcinoma TGLS = 6,7-13+14]

* Seminal Vesicle

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2,5-11]

* Stomach, Glandular

Mineralization

Mild

Necrosis

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-7]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1054

TRT#: 3

SEX: Male

DAY ON TEST: 346

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Fatty, Minimal
* Lung	Interstitialium	Fibrosis	Mild
		Hemorrhage	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
[Hemorrhage TGLS = 1-3]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-11]			
* Stomach, Forestomach		Necrosis	Moderate
[Necrosis TGLS = 4-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1054

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 346
HISTO: 25428

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1055

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 670
HISTO: 25429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal	* Pituitary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Atrophy	Marked
Note: Atrophic adrenal cortex may have been secondary to a pituitary lesion; unfortunately pituitary could not be found in wet tissues.			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH - UNCERTAIN
CONTRIBUTORY CAUSE OF DEATH - Adrenal Cortex Atrophy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1056

TRT#: 3
DOSE: 0.5 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 663
HISTO: 25430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 2-11+12]			
* Heart		Cardiomyopathy	Mild
		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 6-4]			
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Necrosis	Minimal
Note: Liver was pale due to anemia secondary to osteosarcoma.			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 7,8-13+3]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1056	TRT#: 3 DOSE: 0.5 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 663 HISTO: 25430
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ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Fibrosis	Mild
* Stomach, Forestomach		Necrosis	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1201

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 342
HISTO: 25263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-4]		
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolar Epith	Metaplasia	Marked
	[Metaplasia TGLS = 1-3]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal

PRIMARY CAUSE OF DEATH - Lung Alveolar Epith Metaplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1202

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 666
HISTO: 25264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 3-5]		
* Liver		Basophilic Focus	
		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Degeneration TGLS = 6,7-12]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
	[Leukemia Mononuclear TGLS = 1-3]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1202	TRT#: 5	SEX: Male	DAY ON TEST: 666
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25264

ORGAN AND ACCOUNTABLE SITE STATUS

Oral Mucosa	Lateral Wall	Inflammation	Suppurative, Mild
	Pharyngeal	Metaplasia	Squamous, Minimal
[Squamous Cell Papilloma TGLS = 2-10]		Squamous Cell Papilloma	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 5-14]			
[Leukemia Mononuclear TGLS = 4-13+14]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Oral Mucosa Pharyngeal Squamous Cell Papilloma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1204

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 705
HISTO: 25266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 6-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 5,7-4+12]		
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1204	TRT#: 5	SEX: Male	DAY ON TEST: 705
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25266

ORGAN AND ACCOUNTABLE SITE STATUS

	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
	[Fibrosis TGLS = 4-11]		
	[Leukemia Mononuclear TGLS = 3-11]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1206

TRT#: 5

SEX: Male

DAY ON TEST: 614

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 6-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-4]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1206	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 614 HISTO: 25268
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Mild Moderate Moderate Squamous, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 3-8]			
* Preputial GI	Note: "Preputial mass" was dilated duct filled with normal secretion.		
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-11]			
* Stomach, Forestomach		Leukemia Mononuclear Necrosis	Moderate
[Necrosis TGLS = 8,9-12]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1207

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 632
HISTO: 25269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Stomach, Glandular	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
[Leukemia Mononuclear TGLS = 8-3]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-12]			
[Leukemia Mononuclear TGLS = 4-11]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1207 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 632
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25269

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Keratoacanthoma	
		Leukemia Mononuclear	
	[Keratoacanthoma TGLS = 7-13]		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[Fibrosis TGLS = 2-11]		
	[Leukemia Mononuclear TGLS = 3-11]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:12
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1209

TRT#: 5

SEX: Male

DAY ON TEST: 569

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mediastinal	* Thymus
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OBSERVATIONS

* Brain			
Note: Dilatation of brain was secondary to pituitary mass.			
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 5-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
[Metaplasia TGLS = 7-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 3-7]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1209	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 569 HISTO: 25271
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach [Necrosis TGLS = 8-12]		Necrosis	Marked
* Testes [Adenoma TGLS = 4-7]	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1210

TRT#: 5

SEX: Male

DAY ON TEST: 754

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Granuloma Sperm	Mild
		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	

[Adenoma TGLS = 1-8]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1210	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 754 HISTO: 25272
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Melanoma Benign TGLS = 2-12]	Subcut Tiss	Melanoma Benign
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant
* Thyroid Gland	Bilateral, C Cell	Adenoma

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1211

TRT#: 5

SEX: Male

DAY ON TEST: 536

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Brain	Meninges	Hyperplasia	Mild
Note: Hyperplasia in meninges is of granular cells.			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1212

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 5-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
	[Leukemia Mononuclear TGLS = 3-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1212 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 737
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25274

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactocele	Moderate
		Leukemia Mononuclear	
[Galactocele TGLS = 2,9-13+14]			
[Leukemia Mononuclear TGLS = 2,9-13+14]			
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Mild
[Leukemia Mononuclear TGLS = 7-15]			
[Necrosis TGLS = 7-15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Marked
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 4-8]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-12]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-11]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 8-7]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1213

TRT#: 5

SEX: Male

DAY ON TEST: 539

DOSE: 1.0 PPM

DISP: Natural Death

HISTO: 25275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	Penis
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Hyperplasia	Mild
Note: Liver appeared "granular" due to post mortem pooling of blood.			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
Note: Lung was "mottled" due to post mortem pooling of blood.			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
Penis			
Note: "Calculus" was normal secretion from accessory sex glands.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Skin		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1213

TRT#: 5

SEX: Male

DAY ON TEST: 539

DOSE: 1.0 PPM

DISP: Natural Death

HISTO: 25275

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-7]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1214

TRT#: 5

SEX: Male

DAY ON TEST: 557

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Harderian Gland		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 2-11]			
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Marked
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Eosinophilic Focus	
Note: "Granular" appearance of liver was the normal lobular pattern.			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Preputial GI			
Note: "Enlarged" preputial gland had duct filled with normal secretion.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1214	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 557 HISTO: 25276
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic Active, Mild
* Testes [Atrophy TGLS = 6-7]		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1215 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 650
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 6-12]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Thrombosis	Mild
[Leukemia Mononuclear TGLS = 7-4]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1215	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 650 HISTO: 25277
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ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia Leukemia Mononuclear	Moderate
	Lateral Wall	Metaplasia Atrophy	Squamous, Moderate Mild
* Pancreas			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-11]			
* Spleen		Fibrosis Leukemia Mononuclear Necrosis	Mild Marked
[Leukemia Mononuclear TGLS = 3-13+14]			
[Necrosis TGLS = 4,5-14+13]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1216

TRT#: 5

SEX: Male

DAY ON TEST: 751

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Mild
* Heart	Artery	Cardiomyopathy	Moderate
		Mineralization	Moderate
* Kidney	Renal Tubule	Cyst	Mild
		Hyperplasia	Moderate
		Mineralization	Mild
		Nephropathy	Marked
[Cyst TGLS = 6-11]			
[Nephropathy TGLS = 5-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Minimal
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1216 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 751
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25278

ORGAN AND ACCOUNTABLE SITE STATUS

[Mineralization TGLS = 7-3]			
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Inflammation	Hyaline, Moderate Mild Moderate Suppurative, Minimal
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma Mineralization	Mild
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1,2-12]			
* Stomach, Glandular		Mineralization	Moderate
* Testes	Interstit Cell Artery	Adenoma Inflammation	Chronic Active, Moderate
[Adenoma TGLS = 3-7]			
[Inflammation TGLS = 4-7]			
* Trachea		Mineralization	Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1217

TRT#: 5

SEX: Male

DAY ON TEST: 419

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 5-11]	
		[Leukemia Mononuclear TGLS = 4-4]	
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-7]	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-2]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1217	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 419 HISTO: 25279
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ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7-6+16]

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Leukemia Mononuclear	Hyaline, Moderate Moderate Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Mild
* Spleen		Hemorrhage Leukemia Mononuclear	Marked

[Hemorrhage TGLS = 3-12+13+14+15]

[Leukemia Mononuclear TGLS = 2-12+13+14+15]

* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1218

TRT#: 5

SEX: Male

DAY ON TEST: 701

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 2-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Minimal
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 3-11]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1218	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 701 HISTO: 25280
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1219

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 737
HISTO: 25281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Rectum
* Islets, Pancreatic	* Parathyroid Gland	* Preputial Gland	* Prostate
* Skin	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-1]		
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	[Nephropathy TGLS = 7-5]	Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1219 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 737
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25281

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Alveolar Epith	Metaplasia	Moderate
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
[Leukemia Mononuclear TGLS = 8-13]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
Mesentery		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Moderate
		Thrombosis	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-8]			
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-11]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1219

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 737
HISTO: 25281

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-7]

* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1220

TRT#: 5

SEX: Male

DAY ON TEST: 618

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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INSUFFICIENT TISSUE

* Skin

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Angiectasis TGLS = 3-4]		
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Preputial Gland		Inflammation	Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1220

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 618
HISTO: 25282

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Minimal Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1221

TRT#: 5

SEX: Male

DAY ON TEST: 616

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 2-11]		
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
	[Leukemia Mononuclear TGLS = 3-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-7]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1221	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 616 HISTO: 25283
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Leukemia Mononuclear	Hyaline, Mild Mild Moderate
* Pancreas	Lateral Wall	Metaplasia Atrophy	Squamous, Minimal Mild
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-12]			
* Stomach, Glandular		Necrosis	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1222

TRT#: 5

SEX: Male

DAY ON TEST: 581

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
* Intestine Small, Jejunum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-4]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
[Inflammation TGLS = 3-11]			
[Leukemia Mononuclear TGLS = 10-12]			
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-17]			
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1222 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 581
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25284

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-6+20]			
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Mild
[Leukemia Mononuclear TGLS = 7-18]			
[Necrosis TGLS = 14-19]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Moderate
		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
Skeletal Muscle		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-16]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,12,13-13+14+15]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1223

TRT#: 5

SEX: Male

DAY ON TEST: 760

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Hyperplasia	Marked
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 5-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 6-11]		
	[Leukemia Mononuclear TGLS = 7-4]		
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1223 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 760
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25285

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolar Epith	Metaplasia	Moderate
[Leukemia Mononuclear TGLS = 1-3]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-14]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-7]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Leukemia Mononuclear	
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
		Leukemia Mononuclear	
* Preputial Gland		Adenoma	
* Prostate		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
[Leukemia Mononuclear TGLS = 3-12+13]			
[Necrosis TGLS = 4-12+13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1224

TRT#: 5

SEX: Male

DAY ON TEST: 761

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
[Nephropathy TGLS = 6-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Degeneration	Fatty, Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Angiectasis TGLS = 8-12]			
[Hepatodiaphragmatic Nodule TGLS = 7-13]			
[Leukemia Mononuclear TGLS = 5-4]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1224

TRT#: 5

SEX: Male

DAY ON TEST: 761

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25286

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-3]

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 9-6]

* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	

[Fibrosis TGLS = 4-11]

[Leukemia Mononuclear TGLS = 3-11]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 2-7]

* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1225

TRT#: 5

SEX: Male

DAY ON TEST: 756

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Moderate
Eye		Degeneration	Moderate
Note: "Red focus, 7x1mm" was not apparent microscopically.			
Note: "Degeneration" included moderate cataract, marked retinal atrophy, and minimal keratitis in one eye, and mild retinal atrophy in the other eye.			
[Degeneration TGLS = 2-13]			
* Heart		Cardiomyopathy	Moderate
* Kidney	Renal Tubule	Adenoma	
		Cyst	Mild
	Renal Tubule	Hyperplasia	Mild
		Mineralization	Mild
		Nephropathy	Marked
[Cyst TGLS = 6-11]			
[Nephropathy TGLS = 5,6-5+11]			
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1225	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 756 HISTO: 25287
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Alveolar Epith Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Metaplasia Mineralization Degeneration Hyperplasia Hyperplasia Inflammation	Moderate Mild Hyaline, Moderate Moderate Moderate Suppurative, Mild
* Pancreas	Lateral Wall	Metaplasia Atrophy	Squamous, Moderate Minimal
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Stomach, Glandular		Mineralization	Moderate
* Testes [Adenoma TGLS = 4,7-7+12]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Infiltration Cellular	Polymorphnuclr, Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1226

TRT#: 5

SEX: Male

DAY ON TEST: 874

DOSE: 1.0 PPM

DISP: Terminal Sacrifice

HISTO: 25288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Brain		Necrosis	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 5-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Degeneration	Cystic, Moderate
		Eosinophilic Focus	
[Degeneration TGLS = 4-4]			
* Lung	Interstitial	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
		Mineralization	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1226	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 874 HISTO: 25288
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ORGAN AND ACCOUNTABLE SITE STATUS

Oral Mucosa [Squamous Cell Papilloma TGLS = 9-15]	Lateral Wall Pharyngeal	Inflammation Metaplasia Squamous Cell Papilloma	Suppurative, Moderate Squamous, Moderate
* Pancreas * Parathyroid Gland * Pituitary Gland * Skin [Cyst TGLS = 6-12] [Inflammation TGLS = 7-11]	Pars Distalis	Atrophy Hyperplasia Adenoma Cyst Inflammation	Minimal Moderate Mild Chronic Active, Moderate
* Stomach, Forestomach [Hyperplasia TGLS = 8-14]		Hyperplasia	Squamous, Moderate
* Stomach, Glandular * Testes [Adenoma TGLS = 3-7+13]	Bilateral, Interstit Cell	Mineralization Adenoma	Moderate
* Trachea		Mineralization	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1227

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 579
HISTO: 25289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 6-4]		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
	[Infiltration Cellular TGLS = 8-12]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-11]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1227

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 579
HISTO: 25289

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Moderate
		Thrombosis	Mild
* Pancreas		Atrophy	Moderate
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Hemorrhage	Moderate
		Leukemia Mononuclear	
[Hemorrhage TGLS = 5-13]			
[Leukemia Mononuclear TGLS = 4-14]			
* Testes	Interstit Cell	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1228

TRT#: 5

SEX: Male

DAY ON TEST: 608

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Brain			
Note: "Dilatation, cerebrum" was secondary to pituitary tumor.			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Prostate		Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1228	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 608 HISTO: 25290
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1229

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 524
HISTO: 25291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1230

TRT#: 5

SEX: Male

DAY ON TEST: 691

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Marked
	[Nephropathy TGLS = 2-5+11]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Degeneration	Cystic, Mild
		Necrosis	Mild
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pancreas		Basophilic Focus	
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Prostate			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1230	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 691 HISTO: 25292
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ORGAN AND ACCOUNTABLE SITE STATUS

Note: "Enlarged" prostate was within normal limits microscopically.

* Stomach, Forestomach		Necrosis	Moderate
* Testes	Interstit Cell	Hyperplasia	Minimal
	Artery	Inflammation	Chronic Active, Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1231

TRT#: 5

SEX: Male

DAY ON TEST: 716

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Brain		Astrocytoma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 5-11]			
* Stomach, Forestomach		Necrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1231	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 716 HISTO: 25293
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 3,4-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Brain Astrocytoma Malignant;Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1232

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 453
HISTO: 25294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
[Metaplasia TGLS = 2-3]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-11]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1233

TRT#: 5

SEX: Male

DAY ON TEST: 383

DOSE: 1.0 PPM

DISP: Natural Death

HISTO: 25295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Hemorrhage	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
Note: Liver was "granular/dark" due to post mortem pooling of blood. [Hepatodiaphragmatic Nodule TGLS = 4-4]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Moderate
Note: "Dark" lungs were due to post mortem pooling of blood.			
* Lymph Node, Mandibular		Hemorrhage	Mild
[Hemorrhage TGLS = 1-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1233

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 383
HISTO: 25295

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1234

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 567
HISTO: 25296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Parathyroid Gland
* Prostate	* Salivary Glands	* Skin	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-12]			
* Brain		Leukemia Mononuclear	
Eye	Retina	Atrophy	Moderate
		Cataract	Moderate
[Cataract TGLS = 1-11]			
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-4]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1234 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 567
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25296

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		Necrosis	Marked
	[Necrosis TGLS = 2-7]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-6]		
Mesentery		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-13]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-8]		
* Preputial Gland		Inflammation	Chronic Active, Mild
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Hemorrhage	Moderate
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 6-15]		
	[Leukemia Mononuclear TGLS = 5-16]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-14]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1235

TRT#: 5

SEX: Male

DAY ON TEST: 741

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Preputial Gland	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Intestine Large, Cecum		Inflammation	Acute, Mild
		Parasite Metazoan	
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 5,10-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1235 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 741
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25297

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7-13]

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
	Lateral Wall	Leukemia Mononuclear	
		Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

[Adenoma TGLS = 1-8]

* Seminal Vesicle		Leukemia Mononuclear	
* Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	

[Fibroma TGLS = 8-15]
[Keratoacanthoma TGLS = 9-14]

* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	

[Fibrosis TGLS = 4-12]
[Leukemia Mononuclear TGLS = 3-11]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 2-7]

* Thymus		Leukemia Mononuclear	
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PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1236

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Natural Death

DAY ON TEST: 708
HISTO: 25298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
Note: "Dilatation, cerebellum" was secondary to pituitary tumor.			
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-12]			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1236	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 708 HISTO: 25298
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-8]			
* Prostate		Hyperplasia	Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: "Mass" was accessory spleen.			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 1-2]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1237

TRT#: 5

SEX: Male

DAY ON TEST: 549

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
Eye		Cataract	Marked
		Degeneration	Moderate
	[Cataract TGLS = 3-11]		
	[Degeneration TGLS = 2-11]		
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: "Nodule" was variation in normal contour of lobe.			
* Lung	Interstitium	Fibrosis	Mild
		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
	[Hemorrhage TGLS = 1-3]		
	[Hyperplasia TGLS = 8-3]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1237

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 549
HISTO: 25299

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Moderate Moderate Moderate Squamous, Mild
* Pancreas		Atrophy	Marked
* Pituitary Gland		Hemorrhage	Marked
[Hemorrhage TGLS = 4-8]			
* Spleen		Fibrosis Leukemia Mononuclear	Mild
[Fibrosis TGLS = 6-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1238

TRT#: 5

SEX: Male

DAY ON TEST: 643

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-1]		
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hepatocellular Adenoma TGLS = 5-4]		
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
	[Leukemia Mononuclear TGLS = 1-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1238

TRT#: 5

SEX: Male

DAY ON TEST: 643

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25300

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1239

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 756
HISTO: 25301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
[Cardiomyopathy TGLS = 1-4]			
* Kidney		Leukemia Mononuclear	
[Nephropathy TGLS = 8-5]		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
[Degeneration TGLS = 6-4]	Centrilobular	Necrosis	Minimal
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Iliac	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 7-13]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1239	TRT#: 5	SEX: Male	DAY ON TEST: 756
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25301

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Moderate
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Preputial Gland		Carcinoma	
	[Carcinoma TGLS = 2,3-12]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-11]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-7]		

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1240

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 825
HISTO: 25302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Mineralization	Minimal
* Epididymis		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
	Artery	Mineralization	Mild
* Kidney	Renal Tubule	Adenoma	
		Cyst	Mild
		Leukemia Mononuclear	
		Nephropathy	Marked
[Nephropathy TGLS = 12-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Degeneration	Cystic, Mild
		Degeneration	Fatty, Moderate
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
[Degeneration TGLS = 14-4]			
[Leukemia Mononuclear TGLS = 13-4]			
* Lung	Interstitium	Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1240 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 825
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25302

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolus	Hemorrhage Infiltration Cellular Leukemia Mononuclear	Mild Histiocyte, Mild
	Alveolar Epith	Metaplasia Mineralization Thrombosis	Moderate Mild Moderate
	[Hemorrhage TGLS = 5-12] [Thrombosis TGLS = 4,6-3]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Hemorrhage	Moderate
	[Hemorrhage TGLS = 9-15]		
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Inflammation Leukemia Mononuclear	Hyaline, Moderate Mild Moderate Suppurative, Mild
	Lateral Wall	Metaplasia Atrophy	Squamous, Moderate Mild
* Pancreas		Hyperplasia	Marked
* Parathyroid Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
	[Adenoma TGLS = 2,3-8]		
* Skin		Inflammation Squamous Cell Carcinoma	Chronic Active, Moderate
	[Inflammation TGLS = 16-11] [Squamous Cell Carcinoma TGLS = 15-14]		
* Spleen		Fibrosis Leukemia Mononuclear	Mild
	[Fibrosis TGLS = 11-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1240	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 825 HISTO: 25302
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ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 10-4]			
* Stomach, Glandular		Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7,8-7]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1241

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 1.0 PPM

DISP: Natural Death

HISTO: 25303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	* Urinary Bladder
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain			
Note: "Dark focus" in cerebellum was blood in vessel.			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Prostate		Hyperplasia	Moderate
* Stomach, Forestomach		Diverticulum	
[Diverticulum TGLS = 5-8]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,3-11+7]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1242

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 817
HISTO: 25304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex [Adenoma TGLS = 6-5]		Adenoma	
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney [Nephropathy TGLS = 5-5]		Nephropathy	Marked
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver [Degeneration TGLS = 4-4]		Basophilic Focus	
		Degeneration	Cystic, Mild
		Degeneration	Fatty, Mild
* Lung [Metaplasia TGLS = 2-3]	Interstitial	Fibrosis	Moderate
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1242	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 817 HISTO: 25304
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ORGAN AND ACCOUNTABLE SITE STATUS

Organ	Accountable Site	Status
* Pancreas	Lateral Wall	Inflammation Metaplasia Atrophy Basophilic Focus
* Parathyroid Gland		Hyperplasia
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma
* Prostate		Adenoma
* Stomach, Forestomach		Hyperplasia
* Stomach, Glandular		Mineralization
* Testes [Adenoma TGLS = 3-7+11]	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	C Cell	Hyperplasia
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1243

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 1.0 PPM

DISP: Natural Death

HISTO: 25305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Ileum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Histiocytic Sarcoma	
[Nephropathy TGLS = 5-5]		Nephropathy	Marked
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 6,7-12]			
* Lung	Interstitial	Fibrosis	Mild
		Histiocytic Sarcoma	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 1-2]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Mild
		Thrombosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1243	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 728 HISTO: 25305
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Adenoma	
		Histiocytic Sarcoma	
* Prostate		Hyperplasia	Mild
Skeletal Muscle		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 8-13]			
* Spleen		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 3,4-4+11]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Skeletal Muscle Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1244

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 663
HISTO: 25306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
Note: The "focus, 1mm diameter, brown" was not identifiable microscopically.			
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Small, Jejunum		Carcinoma	
[Carcinoma TGLS = 3-12]			
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6+11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1244	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 663 HISTO: 25306
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia	Hyaline, Moderate Moderate Moderate
* Pancreas		Atrophy	Moderate
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 2-11]		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Intestine Small;Jejunum Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1245 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 671
DOSE: 1.0 PPM **DISP:** Natural Death **HISTO:** 25307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Mixed Cell Focus	
	[Mixed Cell Focus TGLS = 3-4]		
* Lung	Interstitial	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1245	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 671 HISTO: 25307
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma	
* Spleen [Fibrosis TGLS = 1-4]		Fibrosis	Mild
* Testes	Interstit Cell Artery	Hyperplasia Inflammation	Minimal Chronic Active, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1246

TRT#: 5

SEX: Male

DAY ON TEST: 779

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 5-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1246 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 779
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25308

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 7-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
	Lateral Wall	Leukemia Mononuclear	
* Pancreas		Metaplasia	Squamous, Moderate
		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 1-8]			
* Preputial Gland		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 6-7]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-11]			
[Leukemia Mononuclear TGLS = 3-11]			
* Stomach, Glandular		Necrosis	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1248

TRT#: 5

SEX: Male

DAY ON TEST: 747

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Preputial Gland	* Prostate	* Salivary Glands
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Leukemia Mononuclear	
* Bone Marrow		Pheochromocytoma Benign	
* Heart		Leukemia Mononuclear	
* Kidney		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 4-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-4]		
* Lung	Interstitial	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-13]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1248 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 747
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25310

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Moderate
Oral Mucosa	Gingival	Hyperplasia	Squamous, Marked
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 2-8]		
* Seminal Vesicle		Leukemia Mononuclear	
* Skin		Inflammation	Chronic Active, Minimal
	[Inflammation TGLS = 1-12]		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[Fibrosis TGLS = 6-11]		
	[Leukemia Mononuclear TGLS = 5-11]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 7-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1251

TRT#: 5

SEX: Male

DAY ON TEST: 621

DOSE: 1.0 PPM

DISP: Natural Death

HISTO: 25313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

AUTO PRECLUDES DIAG.

* Larynx

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	[Hepatodiaphragmatic Nodule TGLS = 3-4]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Prostate		Inflammation	Chronic Active, Mild
* Stomach, Forestomach		Necrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1251	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Natural Death	DAY ON TEST: 621 HISTO: 25313
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1252

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 619
HISTO: 25314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung	Interstitial	Fibrosis	Mild
		Hemorrhage	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
[Hemorrhage TGLS = 6-3]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
Oral Mucosa	Pharyngeal	Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-10+12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1252	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 619 HISTO: 25314
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Fibrosis TGLS = 3-13]		Fibrosis Leukemia Mononuclear	Mild
* Testes [Adenoma TGLS = 4-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland Zymbal's Gland [Carcinoma TGLS = 2-11]	C Cell	Hyperplasia Carcinoma	Mild

PRIMARY CAUSE OF DEATH	- Oral Mucosa Pharyngeal Squamous Cell Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1253

TRT#: 5

SEX: Male

DAY ON TEST: 653

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Moderate
	[Thrombosis TGLS = 12-4]		
* Islets, Pancreatic		Adenoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 6-4]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1253	TRT#: 5 DOSE: 1.0 PPM	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 653 HISTO: 25315
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ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-3] Lymph Node	Alveolar Epith	Metaplasia	Moderate
[Leukemia Mononuclear TGLS = 11-15] [Leukemia Mononuclear TGLS = 9-13] [Leukemia Mononuclear TGLS = 10-14]	Iliac Pancreatic Renal	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
* Lymph Node, Bronchial * Lymph Node, Mandibular [Leukemia Mononuclear TGLS = 3-7]		Leukemia Mononuclear Leukemia Mononuclear	
* Lymph Node, Mediastinal * Lymph Node, Mesenteric * Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Inflammation Leukemia Mononuclear	Hyaline, Moderate Mild Moderate Suppurative, Moderate
* Pancreas	Lateral Wall	Metaplasia Atrophy Leukemia Mononuclear	Squamous, Mild Mild
* Pituitary Gland [Hyperplasia TGLS = 5-8]	Pars Distalis	Hyperplasia	Moderate
* Prostate * Seminal Vesicle * Skin [Inflammation TGLS = 2-11]		Inflammation Leukemia Mononuclear Inflammation	Chronic Active, Mild Chronic Active, Moderate
* Spleen [Leukemia Mononuclear TGLS = 7+13-12]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 8-7]	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1253

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 653
HISTO: 25315

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1254

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 761
HISTO: 25316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Leukemia Mononuclear	
* Bone Marrow		Pheochromocytoma Benign	
* Heart		Leukemia Mononuclear	
* Kidney		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 5-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Iliac	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1254

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 761
HISTO: 25316

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-15+16]

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Moderate Moderate Moderate Squamous, Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear Leukemia Mononuclear	
* Skin			
	[Leukemia Mononuclear TGLS = 1-11+12]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1255

TRT#: 5

SEX: Male

DAY ON TEST: 488

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

[Adenoma TGLS = 1-8]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1256

TRT#: 5
DOSE: 1.0 PPM

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 705
HISTO: 25318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 6-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Necrosis	Minimal
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
	[Leukemia Mononuclear TGLS = 1-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1256 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 705
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25318

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Leukemia Mononuclear	Hyaline, Moderate Moderate Moderate
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pancreas		Atrophy	Moderate
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
	[Adenoma TGLS = 2-8]		
* Salivary Glands	Duct	Metaplasia	Squamous, Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-4]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 902 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 790
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Histiocytic Sarcoma	
		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 4-5]		
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Moderate
		Thrombosis	Mild
	[Leukemia Mononuclear TGLS = 3,9-4+12]		
* Lung	Artery	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 902	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 790 HISTO: 25208
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ORGAN AND ACCOUNTABLE SITE STATUS

	Fat	Necrosis	Moderate
[Necrosis TGLS = 8-14]			
* Nose	Olfactory Epi	Degeneration Leukemia Mononuclear	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 2,10,11-8]			
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-11]			
* Spleen		Fibrosis Leukemia Mononuclear	Mild
[Fibrosis TGLS = 7-13]			
[Leukemia Mononuclear TGLS = 5,6-13]			
* Stomach, Forestomach		Necrosis	Moderate
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 903

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 719
HISTO: 25209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
	[Infiltration Cellular TGLS = 5-7]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Lateral Wall	Hyperplasia	Minimal
		Inflammation	Suppurative, Moderate
	Lateral Wall	Metaplasia	Squamous, Moderate
Oral Mucosa	Gingival	Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLS = 3,6-9]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-8]		
* Skin			

Note: "2mm dark lesion" in groin was normal vascular structures in area of clitoris.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 903	TRT#: 2	SEX: Female	DAY ON TEST: 719
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25209

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Oral Mucosa Gingival Squamous Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 904

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Natural Death

DAY ON TEST: 554
HISTO: 25210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Rectum	* Larynx
* Lung	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 1-7]			
* Mammary Gland		Carcinoma	Multiple
[Carcinoma TGLS = 2,5-12+13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Skin		Cyst	Minimal
[Cyst TGLS = 6-11]			
* Spleen			

Note: Spleen may have appeared "small" due to post mortem autolysis, but was otherwise normal microscopically.

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 905 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 627
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Mild
[Leukemia Mononuclear TGLS = 6-5]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-1]			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver		Basophilic Focus Degeneration	Fatty, Mild
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Leukemia Mononuclear Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 905	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 627 HISTO: 25211
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Leukemia Mononuclear Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 3-8]			
Spinal Cord		Leukemia Mononuclear	
Note: Leukemic infiltrate in spinal cord was cause of neurologic signs.			
* Spleen		Fibrosis Leukemia Mononuclear	Mild
[Fibrosis TGLS = 5-12]			
[Leukemia Mononuclear TGLS = 4-4]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 906

TRT#: 2

SEX: Female

DAY ON TEST: 684

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Larynx		Inflammation	Chronic Active, Marked
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Mammary Gland		Carcinoma	
		Fibroadenoma	
[Carcinoma TGLS = 2-11]			
[Fibroadenoma TGLS = 3-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-4]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 906	TRT#: 2	SEX: Female	DAY ON TEST: 684
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25212

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Mammary Gland Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 907

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 747
HISTO: 25213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Brain		Hemorrhage	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Mixed Cell Focus	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Stomach, Glandular		Necrosis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 908

TRT#: 2

SEX: Female

DAY ON TEST: 874

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 25214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Ovary	* Salivary Glands
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney	Renal Tubule	Carcinoma	
		Leukemia Mononuclear	
		Nephropathy	Marked
		[Carcinoma TGLS = 12-13]	
		[Nephropathy TGLS = 11-5]	
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
		[Leukemia Mononuclear TGLS = 8-4]	
* Lung		Leukemia Mononuclear	
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 9-19]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 908 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 874
DOSE: CONTROL **DISP:** Terminal Sacrifice **HISTO:** 25214

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-16]			
[Leukemia Mononuclear TGLS = 10-20]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7+15]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 4,5-14+17]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 6-18]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 3-8]			
* Skin		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 13-11]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-12]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 909

TRT#: 2

SEX: Female

DAY ON TEST: 652

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Parathyroid Gland	* Skin	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone		Hyperostosis	Marked
* Bone Marrow		Leukemia Mononuclear	
* Brain		Glioma Benign	
		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 5-14]			
* Heart		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 10,11-4+11]		Necrosis	Mild
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
Lymph Node	Iliac	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-17]			
[Leukemia Mononuclear TGLS = 8-16]			
[Leukemia Mononuclear TGLS = 12-18]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 909 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 652
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25215

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial [Leukemia Mononuclear TGLS = 3-3]		Leukemia Mononuclear	
* Lymph Node, Mandibular [Leukemia Mononuclear TGLS = 1-7]		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 15-13]		Leukemia Mononuclear	
* Mammary Gland [Carcinoma TGLS = 14-19]		Carcinoma	
Mesentery		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Leukemia Mononuclear	
		Thrombosis	Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland [Leukemia Mononuclear TGLS = 4-8]	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Spleen [Fibrosis TGLS = 7-12] [Leukemia Mononuclear TGLS = 6-12]		Fibrosis	Minimal
		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
* Uterus [Leukemia Mononuclear TGLS = 13,17-8+15]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 910

TRT#: 2

SEX: Female

DAY ON TEST: 581

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone		Hyperostosis	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 911

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 708
HISTO: 25217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-7]			
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-5]			
* Liver		Basophilic Focus	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 912

TRT#: 2

SEX: Female

DAY ON TEST: 691

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Moderate
		[Inflammation TGLS = 2-7]	
* Intestine Small, Jejunum		Hyperplasia	Adenomatous, Moderate
		[Hyperplasia TGLS = 12-15]	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
		[Leukemia Mononuclear TGLS = 9,10-4]	
* Lung		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-3]	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 11-14]	
		[Leukemia Mononuclear TGLS = 6-13]	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 912 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 691
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25218

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Thrombosis	Moderate
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLS = 4-8]		
* Skin		Inflammation	Chronic Active, Marked
	[Inflammation TGLS = 1-11]		
* Spleen		Fibrosis	Minimal
	[Fibrosis TGLS = 8-12]	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-12]		
* Stomach, Forestomach		Necrosis	Moderate
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Cyst	Moderate
	[Cyst TGLS = 5-8]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 913

TRT#: 2

SEX: Female

DAY ON TEST: 718

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Carcinoma	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-4]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-3]		
	Lymph Node	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-12]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 6-13]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 913	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 718 HISTO: 25219
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 3,4-11]		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 914

TRT#: 2

SEX: Female

DAY ON TEST: 696

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Thymus

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Atrophy	Mild
* Heart	Atrium	Thrombosis	Moderate
[Thrombosis TGLS = 1-4]			
* Kidney	Renal Tubule	Necrosis	Moderate
		Nephropathy	Mild
Note: "Pale" medulla was due to anemia of unknown cause.			
* Liver		Degeneration	Fatty, Moderate
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Moderate
[Degeneration TGLS = 4-4]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Lateral Wall	Hyperplasia	Moderate
		Thrombosis	Marked
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 914	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 696 HISTO: 25220
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Necrosis	Minimal
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Heart Atrium Thrombosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 915 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 789
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 6-7]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-5]			
* Liver		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 4-4]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Stomach, Forestomach		Necrosis	Moderate
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 916

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Natural Death

DAY ON TEST: 557
HISTO: 25222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-7]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Skin		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 1-11]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 917

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 406
HISTO: 25223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Mixed Cell Focus	
Mesentery		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 919

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-5]			
* Liver		Angiectasis	Mild
[Angiectasis TGLS = 5-12]		Basophilic Focus	
Lymph Node	Renal	Inflammation	Granulomatous, Moderate
[Inflammation TGLS = 7-15]			
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 3-14]		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,8-13+16]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Skin		Hyperkeratosis	Moderate
		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 919

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25225

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperkeratosis TGLS = 9-11]

[Squamous Cell Papilloma TGLS = 9-11]

* Thyroid Gland

C Cell
C Cell

Adenoma
Carcinoma

[Carcinoma TGLS = 2-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 920

TRT#: 2

SEX: Female

DAY ON TEST: 604

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 920	TRT#: 2	SEX: Female	DAY ON TEST: 604
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25226

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 1-8]			
* Skin			
Note: "Abdominal mass, 4mm diameter, yellow" was normal clitoral gland and mammary tissue.			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 7-14]			
[Leukemia Mononuclear TGLS = 3-4]			
* Stomach, Forestomach		Hyperplasia	Squamous, Mild
[Hyperplasia TGLS = 9-15]			
* Stomach, Glandular		Necrosis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 921

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 631
HISTO: 25227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 4-3]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Stomach, Forestomach		Necrosis	Marked
[Necrosis TGLS = 5-13]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Carcinoma	
[Carcinoma TGLS = 3-11+12]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Uterus Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 922 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 646
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver		Basophilic Focus Degeneration Hepatodiaphragmatic Nodule Leukemia Mononuclear	Fatty, Moderate
	[Degeneration TGLS = 2,4-4]		
	[Hepatodiaphragmatic Nodule TGLS = 3-12]		
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 922	TRT#: 2	SEX: Female	DAY ON TEST: 646
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25228

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 6-11]

* Stomach, Forestomach

Necrosis

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 923

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 417
HISTO: 25229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Clitoral Gland	* Lymph Node, Bronchial	* Skin
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung		Carcinoma	Metastatic (Mammary Gland)
	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland		Cyst	Mild
[Cyst TGLS = 2-8]			

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 924

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 731
HISTO: 25230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 7-5]			
* Brain		Hemorrhage	Mild
[Hemorrhage TGLS = 9-1]			
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 6-11]			
* Lung			
Note: Lungs were "red" due to blood in normal vessels.			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-11+12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Lateral Wall	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Stomach, Forestomach		Necrosis	Moderate
[Necrosis TGLS = 10-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 8-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 924

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 731
HISTO: 25230

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 925

TRT#: 2

SEX: Female

DAY ON TEST: 581

DOSE: CONTROL

DISP: Natural Death

HISTO: 25231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
		Leukemia Mononuclear	
* Bone		Fracture	
[Fracture TGLS = 3-11]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Leukemia Mononuclear	
		Thrombosis	Mild
* Ovary		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 925

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Natural Death

DAY ON TEST: 581
HISTO: 25231

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-4]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 928

TRT#: 2

SEX: Female

DAY ON TEST: 723

DOSE: CONTROL

DISP: Natural Death

HISTO: 25234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-11+12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 929

TRT#: 2

SEX: Female

DAY ON TEST: 760

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Atrophy Carcinoma	Mild
[Carcinoma TGLS = 6-11]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-5]			
* Liver	Bile Duct	Basophilic Focus Hyperplasia Mixed Cell Focus	Minimal
[Mixed Cell Focus TGLS = 7,8-4]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-12+13]			
* Nose	Olfactory Epi	Degeneration Inflammation	Hyaline, Mild Suppurative, Moderate
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 929

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 760
HISTO: 25235

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 930

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	Lacrimal Gland
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow			
Note: Sternal marrow was within normal limits.			
* Brain		Mineralization	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 10-5]			
* Liver		Basophilic Focus	
		Mixed Cell Focus	
		Necrosis	Mild
[Mixed Cell Focus TGLS = 11-12]			
* Lung	Artery, Perivascular	Inflammation	Chronic, Mild
Lymph Node	Renal	Hemorrhage	Minimal
[Hemorrhage TGLS = 12-12]			
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
[Carcinoma TGLS = 8-16]			
[Fibroadenoma TGLS = 1,2,8,9-13+14+16+15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 930	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 874 HISTO: 25236
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Lateral Wall	Degeneration Metaplasia	Hyaline, Mild Squamous, Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland [Adenoma TGLS = 5-8]	Pars Distalis	Adenoma	
* Skin [Fibrosarcoma TGLS = 2-14]	Subcut Tiss	Fibrosarcoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 931

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 6-5]			
* Liver		Basophilic Focus	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12+13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 932

TRT#: 2

SEX: Female

DAY ON TEST: 467

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral GI			
Note: "Focus" was normal duct filled with secretion.			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
[Leukemia Mononuclear TGLS = 2-5]			
* Liver		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Thrombosis	Moderate
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 932	TRT#: 2	SEX: Female	DAY ON TEST: 467
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25238

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-8]		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 933

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 434
HISTO: 25239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial * Thymus

INSUFFICIENT TISSUE

* Lymph Node, Mesenteric

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Degeneration	Fatty, Minimal
Note: "Dark 2mm lesion" was blood pooled in normal hepatic vasculature. [Degeneration TGLS = 4-4]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Stomach, Forestomach		Necrosis	Moderate
[Necrosis TGLS = 5-11]			
* Stomach, Glandular		Inflammation	Acute, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 934

TRT#: 2

SEX: Female

DAY ON TEST: 842

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Clitoral Gland	* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis	Dilatation	Moderate
		Infarct	Moderate
		Leukemia Mononuclear	
		Nephropathy	Mild
[Dilatation TGLS = 6-5]			
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-14]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 934	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 842 HISTO: 25240
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1,3-11+12+7]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
* Thyroid Gland	C Cell	Adenoma	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 935

TRT#: 2

SEX: Female

DAY ON TEST: 566

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Cortex [Carcinoma TGLS = 4-5]		Carcinoma	
* Brain Note: Dilatation of ventricle was secondary to pituitary tumor.			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung [Carcinoma TGLS = 1-11]		Carcinoma	Metastatic (Adrenal Cortex)
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland [Adenoma TGLS = 3-8]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 936	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Natural Death	DAY ON TEST: 31 HISTO: 25242
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular	* Stomach, Forestomach	* Stomach, Glandular
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Larynx
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OBSERVATIONS

* Lung		Inflammation	Chronic Active, Minimal
* Nose	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Moderate

PRIMARY CAUSE OF DEATH	- UNCERTAIN
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 938 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 635
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Moderate
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 6-5]			
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			
Lymph Node	Renal	Leukemia Mononuclear	
Note: "Enlarged cervical LN, 3mm diameter" was actually normal fat.			
[Leukemia Mononuclear TGLS = 7-13]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 938	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 635 HISTO: 25244
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric Mesentery [Leukemia Mononuclear TGLS = 8-12]		Leukemia Mononuclear Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland [Adenoma TGLS = 3-8]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 4-11]		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 939

TRT#: 2

SEX: Female

DAY ON TEST: 748

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Thrombosis	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-14]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,3-11+12+14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 939	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 748 HISTO: 25245
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Mild
[Carcinoma TGLS = 2-2]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 940

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 731
HISTO: 25246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Necrosis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 10-4]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 3-15+16+17]		
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 940 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 731
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25246

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 8-14]			
* Nose	Olfactory Epi	Degeneration Thrombosis	Hyaline, Mild Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-8]			
* Skin		Inflammation Keratoacanthoma	Chronic Active, Moderate
[Inflammation TGLS = 2-11]			
[Keratoacanthoma TGLS = 4-17]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-12]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Multiple Moderate
[Adenoma TGLS = 5-2]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 9-13]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 941

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 747
HISTO: 25247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
* Lym Node Media			
Note: "Enlarged, 3mm diameter, dark" mediastinal lymph nodes could not be found in wet tissues.			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Inflammation	Suppurative, Mild
Oral Mucosa	Gingival	Cyst	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Stomach, Forestomach		Necrosis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 942

TRT#: 2

SEX: Female

DAY ON TEST: 874

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 25248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Marked
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,5-12+11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach		Mineralization	Minimal
* Stomach, Glandular		Mineralization	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 942	TRT#: 2	SEX: Female	DAY ON TEST: 874
	DOSE: CONTROL	DISP: Terminal Sacrifice	HISTO: 25248

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 943

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Natural Death

DAY ON TEST: 827
HISTO: 25249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Thrombosis	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
* Bone		Fibrous Osteodystrophy	Marked
* Heart	Artery	Cardiomyopathy	Moderate
		Mineralization	Moderate
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 6-12]			
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Mineralization	Moderate
		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver		Basophilic Focus	
		Necrosis	Mild
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	
	Artery, Mediastinum	Mineralization	Moderate
		Mineralization	Mild
[Alveolar/Bronchiolar Carcinoma TGLS = 2-11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 943	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Natural Death	DAY ON TEST: 827 HISTO: 25249
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ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Fibroadenoma TGLS = 3-13]		Fibroadenoma	
Mesentery	Artery	Mineralization	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Inflammation	Suppurative, Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Hyperplasia	Moderate
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Stomach, Glandular		Mineralization	Moderate

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Lung Alveolar/Bronchiolar Carcinoma; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 945

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Glandular	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Clitoral Gland	* Intestine Large, Rectum
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-4]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Mild
	[Fibroadenoma TGLS = 7-7+13]		
	[Galactocele TGLS = 1-12]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 945	TRT#: 2	SEX: Female	DAY ON TEST: 722
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25251

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi	Degeneration Leukemia Mononuclear	Hyaline, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 2-8]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 8-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-11]			
* Stomach, Forestomach		Necrosis	Mild
[Necrosis TGLS = 11-8]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Polyp Stromal	Multiple
[Polyp Stromal TGLS = 9,10-12]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
 CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 946

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Natural Death

DAY ON TEST: 556
HISTO: 25252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-8+12]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 947	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Natural Death	DAY ON TEST: 635 HISTO: 25253
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal	* Thymus
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum

OBSERVATIONS

* Clitoral Gland [Adenoma TGLS = 2-7]		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 948

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 783
HISTO: 25254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-4]		
* Lung		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-8]		
* Skin			
	Note: "Lesion, 2mm diameter, dark" was clitoral duct opening filled with secretion & keratin.		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
	[Fibrosis TGLS = 6-4]		
	[Leukemia Mononuclear TGLS = 5-4]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 948

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 783
HISTO: 25254

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 949

TRT#: 2

SEX: Female

DAY ON TEST: 494

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Brain			
Note: Deformity of brain was secondary to pituitary mass.			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Carcinoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 950

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 649
HISTO: 25256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 5-11]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-12+13+14+15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 951

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 952

TRT#: 2

SEX: Female

DAY ON TEST: 659

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lung	* Lymph Node, Mediastinal	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Mixed Cell Focus	
		Vacuolization Cytoplasmic	Focal, Moderate
[Vacuolization Cytoplasmic TGLS = 2-11]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 953 **TRT#:** 2 **SEX:** Female **DAY ON TEST:** 678
DOSE: CONTROL **DISP:** Moribund Sacrifice **HISTO:** 25259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 4-5]		
* Liver		Degeneration	Fatty, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-3]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Thrombosis	Moderate
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 953	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 678 HISTO: 25259
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
		Thrombosis	Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Minimal
[Carcinoma TGLS = 1-2]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 954

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 577
HISTO: 25260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
* Kidney [Nephropathy TGLS = 5-5]		Nephropathy	Moderate
* Liver [Mixed Cell Focus TGLS = 4-4]		Degeneration Mixed Cell Focus	Fatty, Mild
* Mammary Gland [Carcinoma TGLS = 6-7+11+12]		Carcinoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma	
* Spleen Note: "Small" spleen was normal microscopically.			
* Stomach, Forestomach [Necrosis TGLS = 7,8-13+14]		Necrosis	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 954

TRT#: 2

SEX: Female

DAY ON TEST: 577

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25260

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Carcinoma;Stomach;Forestomach Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 955

TRT#: 2

SEX: Female

DAY ON TEST: 758

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 25261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	Mild
		Nephropathy	Moderate
[Cyst TGLS = 6-13]			
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 4-4+12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Skin		Inflammation	Chronic Active, Moderate
		Schwannoma Malignant	Metastatic (Uterus)
[Inflammation TGLS = 5-11]			
[Schwannoma Malignant TGLS = 2-15]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus		Schwannoma Malignant	
[Schwannoma Malignant TGLS = 3-14+16]			

PRIMARY CAUSE OF DEATH - Uterus Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 956

TRT#: 2
DOSE: CONTROL

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 691
HISTO: 25262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Fatty, Moderate
	Centrilobular	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-4]	Necrosis	Mild
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 5-13]		
Mesentery		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Lateral Wall	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Thrombosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 956	TRT#: 2	SEX: Female	DAY ON TEST: 691
	DOSE: CONTROL	DISP: Moribund Sacrifice	HISTO: 25262

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-8]	Leukemia Mononuclear	
* Skin		Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLS = 6-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-11]		
* Stomach, Glandular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-12]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
	[Polyp Stromal TGLS = 7-8]	Polyp Stromal	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1101

TRT#: 4

SEX: Female

DAY ON TEST: 636

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Lung			
Note: "Mottled" appearance at necropsy was due to post mortem pooling of blood and autolysis.			
* Lym Node Mand			
Note: "Dark" appearance was due to post mortem pooling of blood.			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1102

TRT#: 4

SEX: Female

DAY ON TEST: 598

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
Lymph Node	Pancreatic	Inflammation	Granulomatous, Mild
	[Inflammation TGLS = 3-13]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-11+12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1102

TRT#: 4

SEX: Female

DAY ON TEST: 598

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25432

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1103

TRT#: 4

SEX: Female

DAY ON TEST: 803

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Trachea	* Uterus

MISSING

* Clitoral Gland	* Lymph Node, Bronchial
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OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Mammary Gland		Carcinoma	
		Fibroadenoma	
[Carcinoma TGLS = 2-13+14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1103 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 803
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25433

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Leukemia Mononuclear	Hyaline, Mild Minimal Moderate
	Lateral Wall	Metaplasia Thrombosis	Squamous, Minimal Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
	[Adenoma TGLS = 3-8]		
* Spleen		Fibrosis Hemorrhage Leukemia Mononuclear	Mild Moderate
	[Hemorrhage TGLS = 5-12] [Leukemia Mononuclear TGLS = 4-11]		
* Stomach, Forestomach		Leukemia Mononuclear Necrosis	Moderate
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1104

TRT#: 4

SEX: Female

DAY ON TEST: 842

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone		Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Nephropathy	Moderate
	[Nephropathy TGLS = 5-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-4]		
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
	[Leukemia Mononuclear TGLS = 1-3]		
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1104 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 842
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25434

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Carcinoma	
		Fibroadenoma	
	[Carcinoma TGLS = 6-12]		
	[Fibroadenoma TGLS = 3-11]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 2-8]		
* Spleen		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1105

TRT#: 4

SEX: Female

DAY ON TEST: 756

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-4]		
* Lung	Interstitium	Fibrosis	Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
	Pancreatic	Leukemia Mononuclear	
Lymph Node		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1,2,3-13+14+15]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1105	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 756 HISTO: 25435
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Mild
* Pituitary Gland [Adenoma TGLS = 4-8]	Pars Distalis	Adenoma	
* Spleen [Fibrosis TGLS = 6-12] [Leukemia Mononuclear TGLS = 5-11]		Fibrosis Leukemia Mononuclear	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1106

TRT#: 4

SEX: Female

DAY ON TEST: 824

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 4-5]		
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 3-12]		
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue		Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1106

TRT#: 4

SEX: Female

DAY ON TEST: 824

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25436

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-11]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1107

TRT#: 4

SEX: Female

DAY ON TEST: 874

DOSE: 0.5 PPM

DISP: Terminal Sacrifice

HISTO: 25437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Carcinoma	
		Fibroadenoma	
[Carcinoma TGLS = 2-11]			
[Fibroadenoma TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Ovary		Granulosa Cell Tumor Benign	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1107	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 874 HISTO: 25437
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 3-12]	Subcut Tiss	Fibroma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1108

TRT#: 4

SEX: Female

DAY ON TEST: 874

DOSE: 0.5 PPM

DISP: Terminal Sacrifice

HISTO: 25438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 6-12]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 9-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-4]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
[Leukemia Mononuclear TGLS = 2-3]			
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1108 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 874
DOSE: 0.5 PPM **DISP:** Terminal Sacrifice **HISTO:** 25438

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
[Carcinoma TGLS = 12-18]			
[Fibroadenoma TGLS = 1,4-16+17+13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 7-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Skin		Inflammation	Chronic Active, Mild
[Inflammation TGLS = 11-11]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-12]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:13
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1109

TRT#: 4

SEX: Female

DAY ON TEST: 775

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Adrenal Medulla		Hyperplasia	Mild
* Bone		Hyperostosis	Moderate
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-15]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 4-11]			
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	
Note: There was a large infarct in the fibroadenoma.			
[Fibroadenoma TGLS = 2-12+13+14+15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1109	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 775 HISTO: 25439
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 3-8]	Pars Distalis	Adenoma	
* Spleen Note: The "focus, 4mm diameter" described at trim was not apparent microscopically.		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1110

TRT#: 4

SEX: Female

DAY ON TEST: 691

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mediastinal
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Mild
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver		Nephropathy	Mild
		Angiectasis	Marked
		Basophilic Focus	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
[Angiectasis TGLS = 8-11]			
[Leukemia Mononuclear TGLS = 6-4]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-12]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1110	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 691 HISTO: 25440
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ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Fibroadenoma TGLS = 3-15+16]		Fibroadenoma	
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia Thrombosis	Hyaline, Mild Mild Mild Squamous, Minimal Minimal
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 4-12]		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus Zymbal's Gland [Adenoma TGLS = 7-14]		Leukemia Mononuclear Adenoma	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1111

TRT#: 4

SEX: Female

DAY ON TEST: 739

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
[Leukemia Mononuclear TGLS = 4-4]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1111	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 739 HISTO: 25441
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1,2-11+12]			
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Mild Minimal Mild Squamous, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1112

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 793
HISTO: 25442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Thymus	* Trachea
* Uterus			

INSUFFICIENT TISSUE

* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-5]			
* Liver		Basophilic Focus	
Note: "Focus, 0.3cm, dark" was blood in normal hepatic vasculature.			
[Basophilic Focus TGLS = 5-4]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Lym Node Mand			
Note: "Enlarged, 0.2x0.3cm" mandibular lymph node was within normal limits microscopically.			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Stomach, Glandular		Mineralization	Mild
* Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1112

TRT#: 4

SEX: Female

DAY ON TEST: 793

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25442

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 7-2]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1113

TRT#: 4

SEX: Female

DAY ON TEST: 842

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Minimal
[Pheochromocytoma Benign TGLS = 6-5]			
* Heart	Atrium	Cardiomyopathy Thrombosis	Mild Moderate
[Thrombosis TGLS = 7-4]			
* Kidney		Leukemia Mononuclear Nephropathy	Moderate
[Nephropathy TGLS = 5-5]			
* Liver		Basophilic Focus Leukemia Mononuclear Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung	Interstitialium Alveolus	Fibrosis Infiltration Cellular Leukemia Mononuclear	Minimal Histiocyte, Minimal
* Mammary Gland	Alveolar Epith	Metaplasia Fibroadenoma	Mild
[Fibroadenoma TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1113	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 842 HISTO: 25443
ORGAN AND ACCOUNTABLE SITE STATUS			
	Goblet Cell, Lateral Wall Lateral Wall	Hyperplasia Hyperplasia Leukemia Mononuclear	Minimal Mild
	Lateral Wall	Metaplasia Thrombosis	Squamous, Mild Moderate
* Pituitary Gland [Adenoma TGLS = 3-8]	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
* Stomach, Forestomach [Necrosis TGLS = 9-8]		Necrosis	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1114

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Moderate
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	Multiple
Note: Additional fibroadenoma in slide 7. [Fibroadenoma TGLS = 2-11+12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1114	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 733 HISTO: 25444
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1115

TRT#: 4

SEX: Female

DAY ON TEST: 767

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
		Thrombosis	Moderate
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 7-5]		
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Eosinophilic Focus	
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
	[Leukemia Mononuclear TGLS = 6-4]		
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1115

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 767
HISTO: 25445

ORGAN AND ACCOUNTABLE SITE STATUS

	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
		Thrombosis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-11]			
* Stomach, Forestomach		Necrosis	Moderate
[Necrosis TGLS = 9-8]			
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Mild
[Carcinoma TGLS = 3,4-2]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1116

TRT#: 4

SEX: Female

DAY ON TEST: 468

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Skin
* Trachea	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-4]			
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1116	TRT#: 4	SEX: Female	DAY ON TEST: 468
	DOSE: 0.5 PPM	DISP: Moribund Sacrifice	HISTO: 25446

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1118

TRT#: 4

SEX: Female

DAY ON TEST: 287

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Inflammation	Granulomatous, Mild
* Lung	Interstitialium Alveolar Epith	Fibrosis Metaplasia	Minimal Minimal
* Lymph Node, Mandibular Mesentery [Necrosis TGLS = 2-11]	Fat	Infiltration Cellular Necrosis	Plasma Cell, Moderate Mild
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia	Hyaline, Mild Minimal Minimal
* Pituitary Gland Tooth [Developmental Malformation TGLS = 1-9]	Pars Distalis	Hyperplasia Developmental Malformation	Minimal

PRIMARY CAUSE OF DEATH - Tooth Developmental Malformation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1119

TRT#: 4

SEX: Female

DAY ON TEST: 874

DOSE: 0.5 PPM

DISP: Terminal Sacrifice

HISTO: 25449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 6-5]			
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
		Eosinophilic Focus	
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-12+13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
Oral Mucosa	Pharyngeal	Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1119	TRT#: 4	SEX: Female	DAY ON TEST: 874
	DOSE: 0.5 PPM	DISP: Terminal Sacrifice	HISTO: 25449

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLS = 4-10+11]			
* Pancreas		Atrophy	Minimal
		Basophilic Focus	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-8]			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1120

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 452
HISTO: 25450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|--------------------------|--------------------------|---------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Kidney | * Lymph Node, Mesenteric | * Mammary Gland | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | Eye |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Larynx | * Lymph Node, Mandibular | * Nose | * Pancreas |
| * Pituitary Gland | * Thyroid Gland | | |

OBSERVATIONS

Eye

Note: Post mortem autolysis obscured any microscopic lesions in the "small" eyes.

- | | | | |
|---------------------------|-----------|----------------------|-------------|
| * Liver | Bile Duct | Degeneration | Fatty, Mild |
| | | Hyperplasia | Mild |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Bronchial | | Leukemia Mononuclear | |
| * Lymph Node, Mediastinal | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |

[Leukemia Mononuclear TGLS = 2-11]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1121

TRT#: 4

SEX: Female

DAY ON TEST: 710

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 3-11]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1122 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 579
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone		Hyperostosis	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1123

TRT#: 4

SEX: Female

DAY ON TEST: 636

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-1]			
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-4]		Mixed Cell Focus	
* Lung	Interstitialium	Fibrosis	Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
[Leukemia Mononuclear TGLS = 13-3]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-12]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1123 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 636
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25453

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-7]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
		Leukemia Mononuclear	
* Parathyroid G1			
Note: "Enlarged, 3x2mm" parathyroid was within normal limits microscopically.			
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 4-8]			
* Skin		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 1-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6,7-11]			
* Stomach, Forestomach		Necrosis	Moderate
[Necrosis TGLS = 11-8]			
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1124

TRT#: 4

SEX: Female

DAY ON TEST: 803

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Thrombosis	Moderate
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Marked
* Bone		Fibrous Osteodystrophy	Moderate
		Hyperostosis	Moderate
[Hyperostosis TGLS = 2-11]			
Eye	Cornea	Inflammation	Chronic Active, Moderate
	Cornea	Mineralization	Moderate
[Mineralization TGLS = 1-15]			
* Heart	Artery	Cardiomyopathy	Moderate
		Mineralization	Moderate
* Kidney	Renal Tubule	Adenoma	
		Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 6-5]			
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
[Degeneration TGLS = 7,8-4+12]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1124 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 803
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25454

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolar Epith	Metaplasia	Mild
	Artery, Mediastinum	Mineralization	Marked
		Mineralization	Moderate
[Mineralization TGLS = 3-3]			
Lymph Node	Renal	Hemorrhage	Mild
[Hemorrhage TGLS = 9-14]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-13]			
Mesentery	Artery	Inflammation	Chronic Active, Moderate
	Artery	Mineralization	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Mineralization	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1126

TRT#: 4

SEX: Female

DAY ON TEST: 827

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Degeneration	Fatty, Minimal
		Hepatodiaphragmatic Nodule	
[Angiectasis TGLS = 2-11]			
[Hepatodiaphragmatic Nodule TGLS = 5-12]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Minimal
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1126

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 827
HISTO: 25456

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]		
* Thyroid Gland	C Cell	Carcinoma
[Carcinoma TGLS = 4-2]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1127

TRT#: 4

SEX: Female

DAY ON TEST: 738

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Larynx

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Basophilic Focus	
	[Angiectasis TGLS = 2-4]		
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1128 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 678
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Thrombosis	Mild
* Bone Marrow		Histiocytic Sarcoma	
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
	[Cardiomyopathy TGLS = 11-4]		
	[Thrombosis TGLS = 10-4]		
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLS = 9-4]		
* Lung		Congestion	Chronic, Moderate
	Interstitialium	Fibrosis	Minimal
		Histiocytic Sarcoma	
	Alveolar Epith	Metaplasia	Minimal
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLS = 5-2]		
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
	[Histiocytic Sarcoma TGLS = 8-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1128	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 678 HISTO: 25458
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Inflammation	Hyaline, Mild Mild Mild Suppurative, Minimal
	Lateral Wall	Metaplasia	Squamous, Mild
* Skin		Inflammation	Chronic Active, Minimal
* Spleen		Fibrosis Histiocytic Sarcoma	Mild
[Histiocytic Sarcoma TGLS = 6,7-11+12]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Histiocytic Sarcoma
CONTRIBUTORY CAUSE OF DEATH - Heart Atrium Thrombosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1129

TRT#: 4

SEX: Female

DAY ON TEST: 859

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 4-5]		
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 5-12]		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
Lymph Node	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-13]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-2]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1129

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 859
HISTO: 25459

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Mild Minimal Mild Squamous, Minimal
* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 3-11]		Leukemia Mononuclear	
* Stomach, Forestomach [Necrosis TGLS = 7-8]		Necrosis	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear; Stomach; Forestomach Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1130

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Leukemia Mononuclear TGLS = 2-4]			
* Lung	Alveolar Epith	Leukemia Mononuclear	
		Metaplasia	Minimal
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1130	TRT#: 4	SEX: Female	DAY ON TEST: 733
	DOSE: 0.5 PPM	DISP: Moribund Sacrifice	HISTO: 25460

ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia Inflammation Leukemia Mononuclear	Mild Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
	Olfactory Epi	Metaplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Spleen		Fibrosis Leukemia Mononuclear	Minimal
[Leukemia Mononuclear TGLS = 3-11]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1131

TRT#: 4

SEX: Female

DAY ON TEST: 838

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1,3-11+12+13+14]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1133

TRT#: 4

SEX: Female

DAY ON TEST: 723

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Moderate
		Hyperostosis	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
	[Nephropathy TGLS = 5-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3,4-4]		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1133	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 723 HISTO: 25463
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ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary [Cyst TGLS = 1-11]	Lateral Wall	Hyperplasia Cyst	Minimal Marked
* Pituitary Gland * Spleen [Fibrosis TGLS = 2-4]	Pars Distalis	Adenoma Fibrosis Leukemia Mononuclear	Mild
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1134

TRT#: 4

SEX: Female

DAY ON TEST: 775

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Intestine Small, Duodenum	* Islets, Pancreatic	* Larynx
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Large, Rectum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 3-12]		
	[Leukemia Mononuclear TGLS = 4,5-4]		
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
Lymph Node	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-14]		
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1134

TRT#: 4

SEX: Female

DAY ON TEST: 775

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25464

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-15]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
		Thrombosis	Mild
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 2-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 8-2]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1135 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 682
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Parathyroid Gland	* Skin	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 19-18+6]			
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
[Leukemia Mononuclear TGLS = 13-5]			
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 9-11]			
[Leukemia Mononuclear TGLS = 8-4]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1135 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 682
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25465

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-3]	Alveolar Epith	Metaplasia	Mild
Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
		Leukemia Mononuclear	
Note: Lymph node with no site was axillary lymph node.			
[Leukemia Mononuclear TGLS = 15-13]			
[Leukemia Mononuclear TGLS = 16-16]			
[Leukemia Mononuclear TGLS = 17-15]			
[Leukemia Mononuclear TGLS = 10-11]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 18-17]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 14-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
		Thrombosis	Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1135	TRT#: 4	SEX: Female	DAY ON TEST: 682
	DOSE: 0.5 PPM	DISP: Moribund Sacrifice	HISTO: 25465

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
		Necrosis	Moderate
	[Leukemia Mononuclear TGLS = 11-12]		
	[Necrosis TGLS = 12-13]		
* Stomach, Forestomach		Leukemia Mononuclear	
		Necrosis	Marked
	[Necrosis TGLS = 20,21-8]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 22-19]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1136 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 756
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 4-7]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
Note: Liver was pale due to anemia secondary to large mammary neoplasms.			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,3-12+13+14+15+16]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Mild
Oral Mucosa	Pharyngeal	Squamous Cell Papilloma	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1136

TRT#: 4

SEX: Female

DAY ON TEST: 756

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25466

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1137

TRT#: 4

SEX: Female

DAY ON TEST: 513

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Thymus	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
* Intestine Large, Cecum		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Fibrous Histiocytoma	Metastatic (Skin)
		Mixed Cell Focus	
[Fibrous Histiocytoma TGLS = 3-4+11]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Skin	Subcut Tiss	Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 2-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1137

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 513
HISTO: 25467

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular
* Thyroid Gland
* Urinary Bladder

C Cell

Fibrous Histiocytoma
Hyperplasia
Fibrous Histiocytoma

Metastatic (Skin)
Minimal
Metastatic (Skin)

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrous Histiocytoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1138

TRT#: 4

SEX: Female

DAY ON TEST: 778

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Acute, Moderate
		Necrosis	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
	Note: There was no microscopic finding to explain the hepatic pallor described at necropsy.		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Olfactory Epi	Metaplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1138

TRT#: 4

SEX: Female

DAY ON TEST: 778

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25468

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1139

TRT#: 4

SEX: Female

DAY ON TEST: 817

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 4-5]			
* Adrenal Medulla		Hyperplasia Leukemia Mononuclear	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear Nephropathy	Moderate
[Nephropathy TGLS = 3-5]			
* Larynx	Epiglottitis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia Leukemia Mononuclear	Minimal
[Leukemia Mononuclear TGLS = 2-4]			
* Lung	Interstitialium Alveolus	Fibrosis Infiltration Cellular Leukemia Mononuclear	Mild Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 7-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1139	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 817 HISTO: 25469
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia	Hyaline, Mild Minimal Mild
* Ovary		Leukemia Mononuclear	
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Skin		Inflammation	Chronic Active, Moderate
* Spleen [Leukemia Mononuclear TGLS = 5-11]		Leukemia Mononuclear	
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Minimal
* Uterus [Polyp Stromal TGLS = 6-8]		Polyp Stromal	

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1140

TRT#: 4

SEX: Female

DAY ON TEST: 571

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Trachea	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-14]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-14]			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: "Enlarged" clitoral gland had duct distended with normal secretion.			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Fatty, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-4]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
Lymph Node	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-15]			
[Leukemia Mononuclear TGLS = 13-16]			
[Leukemia Mononuclear TGLS = 7-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1140 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 571
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25470

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial [Leukemia Mononuclear TGLS = 1-3]		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 11-6]		Leukemia Mononuclear	
* Mammary Gland [Carcinoma TGLS = 4-12]		Carcinoma	
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Leukemia Mononuclear	Hyaline, Mild Mild Mild
* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma Leukemia Mononuclear	
* Spleen Note: 1 mm pale focus was not identifiable at trim or microscopically. [Leukemia Mononuclear TGLS = 5-11]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus [Leukemia Mononuclear TGLS = 12-2]		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1141 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 830
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Clitoral Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 10-7]			
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis	Dilatation	Mild
		Nephropathy	Marked
[Dilatation TGLS = 8-5]			
[Nephropathy TGLS = 7-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Mild
Note: The granular appearance was the normal lobular pattern of the liver.			
[Basophilic Focus TGLS = 6-11]			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	
Note: There were several infarcts within the fibroadenoma.			
[Fibroadenoma TGLS = 3-13+14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1141	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 830 HISTO: 25471
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 9-15]	Fat	Necrosis	Mild
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia	Hyaline, Mild Mild Minimal
* Pituitary Gland [Adenoma TGLS = 4-8]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Mild Mild
* Uterus [Thrombosis TGLS = 11-12]		Thrombosis	

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy;Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1142

TRT#: 4

SEX: Female

DAY ON TEST: 509

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
Note: "Granular" appearance of liver was normal lobular pattern.			
* Lung	Interstitial	Fibrosis	Minimal
		Hemorrhage	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Minimal
[Hemorrhage TGLS = 1,2,3-3]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
	Olfactory Epi	Metaplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1142

TRT#: 4

SEX: Female

DAY ON TEST: 509

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25472

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1143 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 849
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Basophilic Focus TGLS = 2-4]			
[Mixed Cell Focus TGLS = 2-4]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1143	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 849 HISTO: 25473
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Hyperplasia Adenoma	Moderate
* Stomach, Forestomach [Necrosis TGLS = 4-8]		Necrosis	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1145 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 721
DOSE: 0.5 PPM **DISP:** Moribund Sacrifice **HISTO:** 25475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
Note: The "focus, 2-5mm diameter, multiple, pale" described at trim may have been artifact; there was no corresponding microscopic explanation.			
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1,2-13+11+12]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-15]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Intermed	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1145	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 721 HISTO: 25475
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1146 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 874
DOSE: 0.5 PPM **DISP:** Terminal Sacrifice **HISTO:** 25476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 4-12]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
[Polyp Adenomatous TGLS = 5-14]		Polyp Adenomatous	
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,3-11+13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pancreas		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1146

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25476

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-8]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1147

TRT#: 4

SEX: Female

DAY ON TEST: 699

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Brain		Hemorrhage	Mild
* Clitoral Gland		Inflammation	Chronic Active, Minimal
[Inflammation TGLS = 2-7]			
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
* Kidney	Renal Tubule	Necrosis	Moderate
		Nephropathy	Mild
* Liver		Degeneration	Fatty, Mild
	Centrilobular	Necrosis	Mild
[Degeneration TGLS = 3-4]			
[Necrosis TGLS = 4-4]			
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
Note: There was no microscopic finding to explain the pallor described at necropsy.			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
		Thrombosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1147	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 699 HISTO: 25477
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Minimal
* Pituitary Gland [Adenoma TGLS = 5-8]	Pars Distalis	Adenoma	
* Spleen		Depletion Cellular	Marked
* Stomach, Glandular [Necrosis TGLS = 6-8]		Necrosis	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Heart Atrium Thrombosis
CONTRIBUTORY CAUSE OF DEATH	- Kidney Renal Tubule Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1148 **TRT#:** 4 **SEX:** Female **DAY ON TEST:** 810
DOSE: 0.5 PPM **DISP:** Natural Death **HISTO:** 25478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Clitoral Gland	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Carcinoma	Metastatic (Pituitary Gland)
* Heart		Cardiomyopathy	Mild
* Intestine Small, Duodenum		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLS = 6-6]		
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Nephropathy TGLS = 1-5]	Nephropathy	Marked
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Metaplasia	Minimal
	Note: A/B carcinoma had prominent squamous, glandular, and spindle-cell elements.		
	[Alveolar/Bronchiolar Carcinoma TGLS = 5-11]		
	[Alveolar/Bronchiolar Carcinoma TGLS = 4-3]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1148	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 810 HISTO: 25478
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ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia	Mild
* Pancreas		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Pituitary Gland		Atrophy	Moderate
		Carcinoma	
	[Carcinoma TGLS = 3-8]		
* Thyroid Gland		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-2]		

PRIMARY CAUSE OF DEATH	- Pituitary Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Lung Alveolar/Bronchiolar Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1150

TRT#: 4

SEX: Female

DAY ON TEST: 585

DOSE: 0.5 PPM

DISP: Natural Death

HISTO: 25480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Islets, Pancreatic
* Larynx	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Thymus	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-11]			
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
[Degeneration TGLS = 8-12]			
[Leukemia Mononuclear TGLS = 7-4]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-13]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1150

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 585
HISTO: 25480

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-2]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 11-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Leukemia Mononuclear	
		Metaplasia	Squamous, Moderate
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 12-8]			
* Spleen		Hemorrhage	Moderate
		Leukemia Mononuclear	
[Hemorrhage TGLS = 4,5-15+16]			
[Leukemia Mononuclear TGLS = 3-17]			
* Stomach, Forestomach		Necrosis	Moderate
* Stomach, Glandular		Necrosis	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Leukemia Mononuclear	
Vagina			
Note: Lumen of vagina contained normal secretion (mucus).			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1151

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 817
HISTO: 25481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Int Lg Cecum			
Note: "Mass, 2x2.6cm, pale" was normal lymph node adjacent to cecum.			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-11+12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

Animal Note: "Enlarged, 3mm diameter, dark pancreatic lymph node" was a normal lobe of pancre as.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1151

TRT#: 4

DOSE: 0.5 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 817

HISTO: 25481

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1153

TRT#: 4
DOSE: 0.5 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 580
HISTO: 25483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Mixed Cell Focus	
	[Hepatodiaphragmatic Nodule TGLS = 4-12]		
	[Mixed Cell Focus TGLS = 5-11]		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-8]		
* Skin		Inflammation	Chronic Active, Marked
	[Inflammation TGLS = 3-7]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1154

TRT#: 4

SEX: Female

DAY ON TEST: 616

DOSE: 0.5 PPM

DISP: Moribund Sacrifice

HISTO: 25484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Mammary Gland	* Parathyroid Gland
* Skin	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone		Hyperostosis	Marked
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Moderate
	Bile Duct	Eosinophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Lung	Mediastinum	Leukemia Mononuclear	
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
[Leukemia Mononuclear TGLS = 1-13]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-14]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1154	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 616 HISTO: 25484
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ORGAN AND ACCOUNTABLE SITE STATUS

	Goblet Cell, Lateral Wall	Hyperplasia	Minimal
	Lateral Wall	Hyperplasia	Mild
		Leukemia Mononuclear	
* Ovary	Lateral Wall	Metaplasia	Squamous, Minimal
		Cyst	Minimal
		Leukemia Mononuclear	
	[Cyst TGLS = 5-7]		
* Pancreas		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 6-8]		
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-11]		
* Stomach, Forestomach		Leukemia Mononuclear	
		Necrosis	Moderate
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 11-12]		
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1155

TRT#: 4

SEX: Female

DAY ON TEST: 874

DOSE: 0.5 PPM

DISP: Terminal Sacrifice

HISTO: 25485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Moderate
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-4]			
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2,3-12+13+14+15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Ovary		Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1155	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 874 HISTO: 25485
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ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 5-7]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1156

TRT#: 4

SEX: Female

DAY ON TEST: 874

DOSE: 0.5 PPM

DISP: Terminal Sacrifice

HISTO: 25486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Complex	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 3-5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Granulomatous, Mild
		Mixed Cell Focus	
	[Basophilic Focus TGLS = 2,6-13]		
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 4,5-11+12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1156	TRT#: 4 DOSE: 0.5 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 874 HISTO: 25486
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Skin Note: "Groin, lesion, 3mm diameter, pale" was normal secretion in dilated duct of clitoral gland.			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder [Carcinoma TGLS = 9-8]	Transit Epithe	Carcinoma	
* Uterus [Polyp Stromal TGLS = 8-8]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1301

TRT#: 6

SEX: Female

DAY ON TEST: 554

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: Clitoral duct was distended with normal secretion.			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 2-11]			
[Leukemia Mononuclear TGLS = 1,3-4+12]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1301

TRT#: 6

SEX: Female

DAY ON TEST: 554

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25319

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 4-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-13]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 5-8]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1302	TRT#: 6	SEX: Female	DAY ON TEST: 682
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1302	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 682 HISTO: 25320
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Lateral Wall Olfactory Epi Pars Distalis	Metaplasia Metaplasia Hyperplasia Leukemia Mononuclear	Squamous, Moderate Minimal Mild
[Hyperplasia TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1303

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 861
HISTO: 25321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Adrenal Medulla		Hyperplasia	Moderate
		Pheochromocytoma Benign	
* Bone		Fibrous Osteodystrophy	Mild
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
		Thrombosis	Mild
	[Nephropathy TGLS = 2-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
* Lung		Carcinoma	Metastatic (Thyroid Gland)
	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-11+12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1303	TRT#: 6	SEX: Female	DAY ON TEST: 861
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25321

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 7-2]			

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1304

TRT#: 6

SEX: Female

DAY ON TEST: 580

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral GI			
Note: "Enlarged" clitorals had ducts distended with normal secretion.			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Fatty, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
[Leukemia Mononuclear TGLS = 7-4]			
* Lung	Interstitial	Fibrosis	Moderate
	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Marked
[Hyperplasia TGLS = 10-13]			
[Metaplasia TGLS = 9-3]			
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-11]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1304

TRT#: 6

SEX: Female

DAY ON TEST: 580

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25322

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-7]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 4-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-14]		
* Stomach, Forestomach		Necrosis	Moderate
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1305

TRT#: 6

SEX: Female

DAY ON TEST: 811

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 6-7]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Degeneration	Fatty, Moderate
[Degeneration TGLS = 4-4]		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 5-11]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1305	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 811 HISTO: 25323
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 2-8]	Lateral Wall Pars Distalis	Inflammation Metaplasia Adenoma	Suppurative, Minimal Squamous, Minimal
* Stomach, Forestomach [Necrosis TGLS = 7,8-13]		Necrosis	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1306

TRT#: 6

SEX: Female

DAY ON TEST: 874

DOSE: 1.0 PPM

DISP: Terminal Sacrifice

HISTO: 25324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Hyperostosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 6-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
		Necrosis	Minimal
[Leukemia Mononuclear TGLS = 7-4]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1306	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 874 HISTO: 25324
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Lateral Wall	Metaplasia	Squamous, Mild
* Pituitary Gland [Adenoma TGLS = 4-8]	Pars Distalis	Atrophy Adenoma	Minimal
* Skin [Fibroma TGLS = 5-12]	Subcut Tiss	Fibroma	
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1307

TRT#: 6

SEX: Female

DAY ON TEST: 874

DOSE: 1.0 PPM

DISP: Terminal Sacrifice

HISTO: 25325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Thymus
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
[Mineralization TGLS = 5-4]			
* Bone		Fibrous Osteodystrophy	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
	Artery	Mineralization	Moderate
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Mineralization	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 13-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Angiectasis	Mild
		Basophilic Focus	
		Degeneration	Cystic, Moderate
		Degeneration	Fatty, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1307 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 874
DOSE: 1.0 PPM **DISP:** Terminal Sacrifice **HISTO:** 25325

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Basophilic Focus TGLS = 11-12]			
[Degeneration TGLS = 10,11-13+12]			
[Hepatodiaphragmatic Nodule TGLS = 12-11]			
[Leukemia Mononuclear TGLS = 9-4]			
* Lung	Interstitial	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
	Artery, Mediastinum	Mineralization	Marked
		Mineralization	Marked
[Mineralization TGLS = 14-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 15-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Lateral Wall	Metaplasia	Squamous, Mild
* Parathyroid Gland		Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			
* Skin	Subcut Tiss	Melanoma Malignant	
[Melanoma Malignant TGLS = 3-16]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 7-14]			
[Leukemia Mononuclear TGLS = 6,8-14+15]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Mineralization	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1307

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25325

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland
* Trachea

C Cell

Hyperplasia
Mineralization

Marked
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1308

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 663
HISTO: 25326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Degeneration	Fatty, Minimal
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 4-11]			
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Moderate
[Infiltration Cellular TGLS = 1-7]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-12+13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1308	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 663 HISTO: 25326
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Necrosis	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 3-14]			

PRIMARY CAUSE OF DEATH - Tongue Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1309

TRT#: 6

SEX: Female

DAY ON TEST: 666

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal
* Brain			
Note: "Dilatation" was secondary to pituitary tumor.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Leukemia Mononuclear	
* Nose	Metaplasia	Metaplasia	Moderate
	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1309	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 666 HISTO: 25327
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1311

TRT#: 6

SEX: Female

DAY ON TEST: 758

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-7+11]			
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1311	TRT#: 6	SEX: Female	DAY ON TEST: 758
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25329

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1312

TRT#: 6

SEX: Female

DAY ON TEST: 831

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 4-5]		
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Degeneration	Fatty, Minimal
		Hepatodiaphragmatic Nodule	
	[Degeneration TGLS = 6-4]		
	[Hepatodiaphragmatic Nodule TGLS = 5-4]		
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
	Note: "2mm diameter dark focus" was blood in normal pulmonary vasculature.		
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1312	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 831 HISTO: 25330
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ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 1-11+12]			
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Moderate Mild Mild Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-8]			
* Spleen			
Note: "Dark focus, 5x2mm" was blood in normal vessel.			
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
* Stomach, Glandular		Necrosis	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1313

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 643
HISTO: 25331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal	* Parathyroid Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
Note: "Granular" appearance was normal lobular pattern of liver.			
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-11]			
* Stomach, Glandular		Mineralization	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1314

TRT#: 6

SEX: Female

DAY ON TEST: 486

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-13]	
		[Leukemia Mononuclear TGLS = 5-12]	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-7]	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 7-15]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1314	TRT#: 6	SEX: Female	DAY ON TEST: 486
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25332

ORGAN AND ACCOUNTABLE SITE STATUS

	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 2-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-11]		
* Stomach, Forestomach		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Leukemia Mononuclear	
		Polyp Stromal	
	[Polyp Stromal TGLS = 4-14]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1315

TRT#: 6

SEX: Female

DAY ON TEST: 874

DOSE: 1.0 PPM

DISP: Terminal Sacrifice

HISTO: 25333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Marked
[Nephropathy TGLS = 5-5+12]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Degeneration	Cystic, Mild
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 6-11]			
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1315	TRT#: 6	SEX: Female	DAY ON TEST: 874
	DOSE: 1.0 PPM	DISP: Terminal Sacrifice	HISTO: 25333

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 7-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Leukemia Mononuclear	
* Pituitary Gland	Lateral Wall	Metaplasia	Squamous, Mild
[Adenoma TGLS = 2-8]	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-11]			
* Stomach, Glandular		Mineralization	Mild
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 8-2]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1316

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Mild
* Bone		Osteoma	
[Osteoma TGLS = 5-11]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 4-4]			
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Carcinoma	
		Fibroadenoma	
[Carcinoma TGLS = 3-12]			
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1316	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 733 HISTO: 25334
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Olfactory Epi	Inflammation Metaplasia Atrophy	Suppurative, Mild Mild Mild
* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Mild Minimal

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1317

TRT#: 6

SEX: Female

DAY ON TEST: 559

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
[Degeneration TGLS = 2-11]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1318

TRT#: 6

SEX: Female

DAY ON TEST: 670

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
[Basophilic Focus TGLS = 2-4]			
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1319

TRT#: 6

SEX: Female

DAY ON TEST: 670

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Inflammation	Granulomatous, Moderate
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 2-12]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Mixed Cell Focus	
		Necrosis	Mild
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 3-13+14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1319

TRT#: 6

SEX: Female

DAY ON TEST: 670

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25337

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1320

TRT#: 6

SEX: Female

DAY ON TEST: 744

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hyperplasia	Mild
Eye		Degeneration	Moderate
Note: "Degeneration" includes marked retinal atrophy, moderate cataract, synechia, and corneal edema.			
[Degeneration TGLS = 3-15]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12+13+14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Minimal
	Lateral Wall	Metaplasia	Squamous, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1320	TRT#: 6	SEX: Female	DAY ON TEST: 744
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25338

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-8]		
* Salivary Glands		Basophilic Focus
* Skin	Subcut Tiss	Fibrosarcoma
[Fibrosarcoma TGLS = 5-11]		
* Thyroid Gland	C Cell	Carcinoma

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1321

TRT#: 6

SEX: Female

DAY ON TEST: 685

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-7]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 6-12]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
[Alveolar/Bronchiolar Adenoma TGLS = 5-3]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,4-13+14+15+16+17]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1321

TRT#: 6

SEX: Female

DAY ON TEST: 685

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25339

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8]

* Skin

Inflammation

Chronic Active, Moderate

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1322

TRT#: 6

SEX: Female

DAY ON TEST: 848

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Clitoral GI			
Note: "Mass, 7x5mm, pale" was dilated duct filled with normal secretion.			
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Parasite Metazoan	
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Necrosis	Minimal
[Hepatodiaphragmatic Nodule TGLS = 7-14]			
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 3,4-11+12+13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1322

TRT#: 6

SEX: Female

DAY ON TEST: 848

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25340

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 5-15]	Fat	Necrosis	Mild
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Inflammation	Hyaline, Moderate Mild Moderate Suppurative, Mild
* Pancreas	Lateral Wall	Metaplasia Thrombosis Atrophy	Squamous, Minimal Mild Mild
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Leukemia Mononuclear Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 6-4]		Leukemia Mononuclear	
* Stomach, Forestomach Note: The "deformity, 4mm diameter, pale" was variation in normal contour of forestomach.		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1323

TRT#: 6

SEX: Female

DAY ON TEST: 874

DOSE: 1.0 PPM

DISP: Terminal Sacrifice

HISTO: 25341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Ovary	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Hypertrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Pheochromocytoma Benign	
		Pheochromocytoma Malignant	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Leukemia Mononuclear	
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 3-7]			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
[Nephropathy TGLS = 9-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Degeneration TGLS = 6,7-11+12]			
[Leukemia Mononuclear TGLS = 8-4]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1323 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 874
DOSE: 1.0 PPM **DISP:** Terminal Sacrifice **HISTO:** 25341

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node	Alveolar Epith Pancreatic Renal	Leukemia Mononuclear Metaplasia Leukemia Mononuclear Leukemia Mononuclear	Moderate
	[Leukemia Mononuclear TGLS = 5-14] [Leukemia Mononuclear TGLS = 10-11]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Inflammation	Hyaline, Moderate Mild Moderate Suppurative, Mild
	Lateral Wall	Leukemia Mononuclear Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
	[Adenoma TGLS = 1-8]		
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 2-13]		
* Spleen		Fibrosis Leukemia Mononuclear	Mild
	[Leukemia Mononuclear TGLS = 4,11,12-14+15+16]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1324

TRT#: 6

SEX: Female

DAY ON TEST: 699

DOSE: 1.0 PPM

DISP: Natural Death

HISTO: 25342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland	* Lymph Node, Mediastinal
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AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1324

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 699
HISTO: 25342

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1325

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Brain		Gliosis	Moderate
* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Mixed Cell Focus	
		[Hepatodiaphragmatic Nodule TGLS = 2-12]	
		[Mixed Cell Focus TGLS = 4-11]	
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 3-8]	
* Skin		Inflammation	Chronic Active, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1325

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 733
HISTO: 25343

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1326

TRT#: 6

SEX: Female

DAY ON TEST: 635

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Chronic Active, Moderate
[Inflammation TGLS = 9-7]			
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Fatty, Moderate
		Hepatodiaphragmatic Nodule	
	Centrilobular	Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-11]		Necrosis	Mild
[Leukemia Mononuclear TGLS = 4-4]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
* Mammary Gland		Adenoma	Multiple
		Fibroadenoma	
[Adenoma TGLS = 1-13]			
[Fibroadenoma TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1326	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 635 HISTO: 25344
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ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
		Thrombosis	Moderate
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 3-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6,7-4]		
* Stomach, Forestomach		Necrosis	Marked
	[Necrosis TGLS = 8,10-12]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1327

TRT#: 6

SEX: Female

DAY ON TEST: 705

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-15]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-12+13+14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-11]			

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1327

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 705
HISTO: 25345

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1329

TRT#: 6

SEX: Female

DAY ON TEST: 536

DOSE: 1.0 PPM

DISP: Natural Death

HISTO: 25347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
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AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Adrenal Cortex		Hypertrophy Necrosis	Moderate Mild
[Hypertrophy TGLS = 10,11-5]			
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Clitoral GI			
Note: "Enlarged" clitoral gland had duct distended with normal secretion.			
* Kidney	Pelvis	Inflammation Nephropathy	Acute, Moderate Marked
[Nephropathy TGLS = 9-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Clear Cell Focus	
Note: "Mottled" liver was due to post mortem autolysis and pooling of blood.			
* Lung	Interstitialium Alveolus Alveolar Epith	Fibrosis Infiltration Cellular Metaplasia	Marked Histiocyte, Moderate Marked
[Metaplasia TGLS = 1-3]			
* Mammary Gland		Galactocele	Moderate
[Galactocele TGLS = 5,6-12+13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1329	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 536 HISTO: 25347
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Mild Minimal Mild Squamous, Mild
* Pituitary Gland [Cyst TGLS = 2-8]		Cyst	Minimal
* Spleen Note: "Small" spleen was well within normal size range and was normal microscopically.			
* Stomach, Forestomach [Hyperplasia TGLS = 12-11]		Hyperplasia	Squamous, Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1330

TRT#: 6

SEX: Female

DAY ON TEST: 705

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-13]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5,6-4+11]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Mild
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1330	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 705 HISTO: 25348
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ORGAN AND ACCOUNTABLE SITE STATUS

	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-12]		
* Stomach, Glandular		Mineralization	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1332

TRT#: 6

SEX: Female

DAY ON TEST: 614

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Clitoral Gland			
Note: "Prepuce, mass, 1 cm diameter" was duct of clitoral gland dilated with normal secretion.			
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Carcinoma	
		Fibroadenoma	
		Galactocele	Moderate
	[Carcinoma TGLS = 7-13]		
	[Fibroadenoma TGLS = 5-11]		
	[Galactocele TGLS = 6-12]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-8]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1333 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 793
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 6-12]		
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1333	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 793 HISTO: 25351
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 7-6]		Leukemia Mononuclear	
* Mammary Gland [Fibroadenoma TGLS = 1-11]		Fibroadenoma	
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Moderate Mild Moderate Squamous, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen [Leukemia Mononuclear TGLS = 3-13] [Sarcoma TGLS = 4-13]		Leukemia Mononuclear Sarcoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1334

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Mixed Cell Focus	
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-12]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
* Ovary		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1334

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25352

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Ovarian hyperplasia was sertoliform.

* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma
* Skin [Squamous Cell Carcinoma TGLS = 2-11]		Squamous Cell Carcinoma
* Thyroid Gland	C Cell	Adenoma
* Uterus		Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1335 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 753
DOSE: 1.0 PPM **DISP:** Natural Death **HISTO:** 25353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign Leukemia Mononuclear	Mild
* Bone Marrow			
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 5-11]	
		[Leukemia Mononuclear TGLS = 4,6-4+11]	
* Lung	Interstitium	Fibrosis Inflammation Leukemia Mononuclear	Mild Chronic Active, Marked
	Alveolar Epith	Metaplasia	Moderate
		[Inflammation TGLS = 9-3]	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi Goblet Cell, Lateral Wall	Degeneration Hyperplasia	Hyaline, Moderate Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1335	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Natural Death	DAY ON TEST: 753 HISTO: 25353
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ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
		Thrombosis	Moderate
* Pituitary Gland		Cyst	Minimal
[Cyst TGLS = 3-8]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 8,10-13]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-12]			
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLS = 2-2]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1337

TRT#: 6

SEX: Female

DAY ON TEST: 800

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Mineralization	Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 2-11]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1337	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 800 HISTO: 25355
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Inflammation	Hyaline, Marked Moderate Moderate Suppurative, Mild
* Pituitary Gland [Hyperplasia TGLS = 1-8]	Lateral Wall Pars Distalis	Metaplasia Hyperplasia	Squamous, Minimal Mild
* Spleen [Leukemia Mononuclear TGLS = 3-12]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1338

TRT#: 6

SEX: Female

DAY ON TEST: 714

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Clitoral Gland	* Lymph Node, Bronchial	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	Multiple
Note: Additional fibroadenoma in slide 11.			
[Fibroadenoma TGLS = 1-12+13+14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Metaplasia	Squamous, Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1338	TRT#: 6	SEX: Female	DAY ON TEST: 714
	DOSE: 1.0 PPM	DISP: Moribund Sacrifice	HISTO: 25356

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Mammary Gland Fibroadenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1339

TRT#: 6

SEX: Female

DAY ON TEST: 775

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 4-4]			
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-11+12]			
* Nose		Chondroma	
	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1339

TRT#: 6

SEX: Female

DAY ON TEST: 775

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25357

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1340

TRT#: 6

SEX: Female

DAY ON TEST: 721

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial	* Parathyroid Gland
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INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Degeneration	Fatty, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Centrilobular	Necrosis	Minimal
	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1340 **TRT#:** 6 **SEX:** Female **DAY ON TEST:** 721
DOSE: 1.0 PPM **DISP:** Moribund Sacrifice **HISTO:** 25358

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-6]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
		Inflammation	Suppurative, Moderate
		Leukemia Mononuclear	
	Olfactory Epi	Metaplasia	Mild
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-11]			
* Stomach, Forestomach		Necrosis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
<hr/>			
PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1341

TRT#: 6

SEX: Female

DAY ON TEST: 761

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25359

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1342

TRT#: 6

SEX: Female

DAY ON TEST: 874

DOSE: 1.0 PPM

DISP: Terminal Sacrifice

HISTO: 25360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Mild
Eye		Cataract	Mild
		Degeneration	Moderate
Note: Degeneration includes moderate cataract, marked retinal atrophy, posterior synechia, and mild keratitis.			
[Degeneration TGLS = 1-11]			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-12+13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1342	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 874 HISTO: 25360
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Lateral Wall Olfactory Epi	Inflammation Metaplasia Metaplasia Atrophy Hyperplasia	Suppurative, Moderate Squamous, Mild Moderate Mild Mild
* Pituitary Gland [Adenoma TGLS = 2-8]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1343

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 673
HISTO: 25361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
	Centrilobular	Necrosis	Minimal
[Basophilic Focus TGLS = 3-4]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
[Metaplasia TGLS = 1-3]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Stomach, Forestomach		Necrosis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1344

TRT#: 6

SEX: Female

DAY ON TEST: 695

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Marked
* Liver		Basophilic Focus	
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-11+12+13]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1346

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 817
HISTO: 25364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Atrophy	Moderate
* Adrenal Medulla		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-7]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
Note: "Nodule, 6mm diameter" described at necropsy was HDN, but was accidentally removed from rest of liver and could not be identified at trim.			
[Basophilic Focus TGLS = 5-4]			
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-12+13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1346

TRT#: 6

SEX: Female

DAY ON TEST: 817

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25364

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 4-4]		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Hyperplasia	Squamous, Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus [Sarcoma Stromal TGLS = 3-11]		Sarcoma Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma; Uterus Sarcoma Stromal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1347

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 874
HISTO: 25365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Atrophy	Moderate
* Clitoral Gland		Adenoma	
		[Adenoma TGLS = 5-12+7]	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
		[Nephropathy TGLS = 3-5]	
* Larynx		Carcinoma	Metastatic (Thyroid Gland)
	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Degeneration	Cystic, Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
		[Basophilic Focus TGLS = 2-11]	
		[Mixed Cell Focus TGLS = 2-11]	
* Lung		Carcinoma	Metastatic (Thyroid Gland)
	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1347	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Terminal Sacrifice	DAY ON TEST: 874 HISTO: 25365
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland [Carcinoma TGLS = 6-12]		Leukemia Mononuclear Carcinoma	
* Nose	Olfactory Epi Goblet Cell, Lateral Wall Lateral Wall Lateral Wall	Degeneration Hyperplasia Hyperplasia Metaplasia	Hyaline, Marked Mild Mild Squamous, Minimal
* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
* Thyroid Gland [Carcinoma TGLS = 4-2]	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1348

TRT#: 6

SEX: Female

DAY ON TEST: 483

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1349

TRT#: 6

SEX: Female

DAY ON TEST: 632

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Galactocele	Moderate
[Galactocele TGLS = 4-12]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1350

TRT#: 6

SEX: Female

DAY ON TEST: 285

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Schwannoma Malignant	

[Schwannoma Malignant TGLS = 1-11+12+13]

PRIMARY CAUSE OF DEATH

- Uterus Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1352

TRT#: 6

SEX: Female

DAY ON TEST: 551

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Degeneration	Fatty, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-4]		
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Moderate
	[Leukemia Mononuclear TGLS = 6-3]		
	Lymph Node	Renal	Leukemia Mononuclear
	[Leukemia Mononuclear TGLS = 4-11]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1352	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 551 HISTO: 25370
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ORGAN AND ACCOUNTABLE SITE STATUS

	Lateral Wall	Hyperplasia Inflammation	Moderate Suppurative, Minimal
* Pancreas	Lateral Wall	Metaplasia Atrophy	Squamous, Mild Minimal
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Adenoma TGLS = 3-8]			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1353

TRT#: 6

SEX: Female

DAY ON TEST: 713

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain			
Note: "Dilatation" was secondary to pituitary mass.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Larynx	Epiglottis	Metaplasia	Squamous, Moderate
* Liver		Basophilic Focus	
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-4]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Marked
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-8]			
* Stomach, Forestomach		Necrosis	Moderate
[Necrosis TGLS = 5-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1353

TRT#: 6
DOSE: 1.0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 713
HISTO: 25371

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
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PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1354

TRT#: 6

SEX: Female

DAY ON TEST: 775

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Rectum		Parasite Metazoan	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5]			
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Angiectasis	Moderate
		Basophilic Focus	
[Angiectasis TGLS = 2-4]			
* Lung	Interstitialium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
Lymph Node	Renal	Infiltration Cellular	Plasma Cell, Mild
[Infiltration Cellular TGLS = 4-12]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-11]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1354	TRT#: 6 DOSE: 1.0 PPM	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 775 HISTO: 25372
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 1-8]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1355

TRT#: 6

SEX: Female

DAY ON TEST: 467

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolar Epith	Metaplasia	Moderate
* Mammary Gland		Carcinoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 88034-05
Test Type: CHRONIC 30-MONTH
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Ozone
CAS Number: 10028-15-6

Date Report Requested: 10/20/2014
Time Report Requested: 16:31:14
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 1356

TRT#: 6

SEX: Female

DAY ON TEST: 566

DOSE: 1.0 PPM

DISP: Moribund Sacrifice

HISTO: 25374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Clitoral Gland			
Note: "Focus" in clitoral gland was duct distended by normal secretion.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Larynx	Epiglottis	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolar Epith	Metaplasia	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Hyperplasia	Moderate
	Lateral Wall	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-8]			
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE