

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:19
First Dose M/F: NA / NA
Lab: SRI

C Number:	C91008
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	07/07/1990

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 361

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A86037815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Bone
- * 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 - Mandibular
- * Mammary Gland
- * Nose
- * Pancreas
- * Parathyroid Gland
- * Prostate
- * Salivary Glands
- * Seminal Vesicle
- * Skin
- * Stomach - Forestomach
- * Testes
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Gland
 - Cortex
 - Leukemia Mononuclear
 - Note: LEUKEMIA MONUC TGLs = 3-10
- * Bone Marrow
 - Leukemia Mononuclear
- * Brain
 - Hemorrhage
 - Leukemia Mononuclear
 - Marked
 - Note: HEMORRHAGE TGLs = 8-1,9-1
- * Kidney
 - Nephropathy
 - Mild
- * Liver
 - Centrilobular
 - Atrophy
 - Mild
 - Fatty Change
 - Minimal
 - Biliar Tract
 - Fibrosis
 - Minimal
 - Bile Duct
 - Hyperplasia
 - Mild
 - Hyperplasia
 - Multifocal, Mild
 - Leukemia Mononuclear
- * Lung
 - Leukemia Mononuclear
 - Note: LEUKEMIA MONUC TGLs = 4-6
- * Lymph Node
 - Mediastinal
 - Leukemia Mononuclear
 - Mesenteric
 - Leukemia Mononuclear
 - Pancreatic
 - Leukemia Mononuclear
 - Note: LEUKEMIA MONUC TGLs = 7-3
 - Note: LEUKEMIA MONUC TGLs = 2-21
 - Note: LEUKEMIA MONUC TGLs = 5-5

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
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P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:19
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 361
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A86037815

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Degeneration	Cystic, Moderate
Note: DEGEN	TGLs = 11-8		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		
* Stomach	Glandular	Erosion	Minimal
	Glandular	Inflammation	Chronic, Minimal
	Glandular	Pigmentation	Focal, Minimal
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87042971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
Blood Vessel	Mesent Artery	Inflammation	Chronic, Moderate
* Intestine Large	Colon	Leukemia Mononuclear	
	Rectum	Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-21			
* Mammary Gland		Fibroadenoma	
* Nose		Inflammation	Suppurative, Minimal
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87042971

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7-1]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:19

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 710

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Skin
- * Trachea

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Mammary Gland
- * Preputial Gland
- * Stomach - Forestomach
- * Urinary Bladder

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Nose
- * Salivary Glands
- * Stomach - Glandular

- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Pancreas
- * Seminal Vesicle
- * Thymus

OBSERVATIONS

- * Adrenal Gland

Medulla
Medulla

Leukemia Mononuclear
Pheochromocytoma Benign

Note: PHEOCHROM BGN TGLs = 5-22

- * Bone Marrow
- * Kidney

Leukemia Mononuclear
Leukemia Mononuclear
Nephropathy

Marked

Note: NEPHROPATHY TGLs = 6-5

- * Liver

Biliar Tract
Bile Duct

Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Leukemia Mononuclear

Cystic, Mild
Moderate
Moderate
Multifocal, Moderate

Note: HYPERPLASIA TGLs = 7-6

Note: LEUKEMIA MONUC TGLs = 7-6

Note: HYPERPLASIA TGLs = 7-6

Note: FIBROSIS TGLs = 7-6

- * Lung
- * Lymph Node

Mandibular
Mediastinal
Mesenteric
Pancreatic

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-3

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 710
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042972

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-21			
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 9-1			
Note: ANGIECTASIS TGLs = 9-1			
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4	TRT#: 1	SEX: Male	DAY ON TEST: 606
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5,3-5		
* Liver		Inflammation	Focal, Minimal
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 4-1		
Note: ADENOMA	TGLs = 4-1		
* Skin		Abscess	Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Moderate
	Glandular	Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87042974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	Moderate
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 5-23]			
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-2-1,8-2-1		
* Lymph Node	Mesenteric	Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 4-22		
* Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 1-21		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 3-7		
* Thymus		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87042974

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia Pigmentation	Minimal Minimal
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Note: PIGMENT TGLs = 7-3

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 626 HISTO: A87042975
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Bone Marrow		Myelofibrosis	Minimal
* Kidney	Pelvis	Dilatation	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 6-5			
Note: DILATATION TGLs = 7-5			
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
Mesentery		Inflammation	Chronic, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Cyst	Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 605

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Preputial Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6-1		
* Lung		Hemorrhage	Minimal
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 7-2		
Note: LEUKEMIA MONUC	TGLs = 7-2		
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-8		
Note: LEUKEMIA MONUC	TGLs = 6-3		
Note: LEUKEMIA MONUC	TGLs = 4-5-1		
Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 605
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042976

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland Note: HYPERPLASIA TGLs = 8-1	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Suppurative, Mild
* Spleen Note: LEUKEMIA MONUC TGLs = 3-6		Leukemia Mononuclear Necrosis	Focal, Mild
* Testes Note: ADENOMA TGLs = 2-7	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 8	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: A87042977
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Angiectasis	Minimal
		Atrophy	Minimal
	Biliar Tract	Degeneration	Cystic, Mild
		Fibrosis	Mild
	Bile Duct	Focal Cellular Change	Mild
		Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Lung		Hyperplasia	Macrophage, Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 5-2]			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
* Nose		Inflammation	Suppurative, Minimal
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 8	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: A87042977
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Degeneration	Cystic, Mild
		Inflammation	Suppurative, Moderate
[Degeneration TGLS = 1-8]			
[Inflammation TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6-1]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 9	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: A87042978
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5-1			
* Liver	Centrilobular	Atrophy	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 5-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Angiectasis	Mild
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 6-3			
* Mammary Gland		Dilatation	Minimal
* Pancreas	Acinar Cell	Adenoma	
		Atrophy	Focal, Minimal
Note: ADENOMA TGLs = 2-21			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87042978

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 3-6		
* Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 1-7		
* Thyroid Gland		C Cell	Hyperplasia
			Mild
PRIMARY CAUSE OF DEATH		-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 578

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87042979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Liver	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Osteosarcoma	Metastatic (Bone)
* Bone		Osteosarcoma	
Note: OSTEOSARC	TGLs = 9-24		
* Kidney		Nephropathy	Mild
		Osteosarcoma	Metastatic (Bone)
Note: OSTEOSARC	TGLs = 7-23		
* Lung	Mediastinum	Osteosarcoma	Metastatic (Bone)
		Osteosarcoma	Metastatic (Bone)
Note: OSTEOSARC	TGLs = 8-2,8-2-1		
Mesentery		Osteosarcoma	Metastatic (Bone)
* Pancreas		Atrophy	Focal, Mild
		Cytoplasmic Alteration	Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Necrosis	Focal, Mild
		Osteosarcoma	Metastatic (Bone)
Note: NECROSIS	TGLs = 6-21,6-22		
Note: OSTEOSARC	TGLs = 5-21		
* Testes	Bilateral, Interstit Cell	Adenoma	
		Osteosarcoma	Metastatic (Bone)
Note: ADENOMA	TGLs = 4-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 578

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87042979

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 710

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney Note: NEPHROPATHY TGLs = 8-5-1		Nephropathy	Moderate
* Liver	Biliar Tract	Degeneration Fibrosis	Cystic, Minimal Mild
	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia Leukemia Mononuclear	Mild Mild
Note: ANOM HEPAT LOB TGLs = 10-6			
* Lymph Node	Mesenteric Mesenteric	Cyst Leukemia Mononuclear	Moderate
Note: CYST TGLs = 7-5			
Mesentery		Mesothelioma Malignant	
* Pancreas	Acinar Cell	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Skin		Cyst Epithelial Inclusion	Mild
Note: CYST EPITH INC TGLs = 9-24			
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration Mesothelioma Malignant	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 710

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042980

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 4-7
[Adenoma TGLS = 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87042981

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
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5		
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 6-6-1		
Note: LEUKEMIA MONUC	TGLs = 6-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Hemorrhage	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87042981

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE	TGLs = 1-21			
Mesentery			Leukemia Mononuclear	
* Nose			Inflammation	Suppurative, Minimal
* Pancreas			Atrophy	Focal, Moderate
Note: ATROPHY	TGLs = 4-7			
* Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6			
* Stomach		Glandular	Erosion	Minimal
		Glandular	Pigmentation	Focal, Minimal
Note: EROSION	TGLs = 8-4-1			
Note: PIGMENT	TGLs = 8-4-1			
* Testes		Interstit Cell	Adenoma	
		Germinal Epith	Degeneration	Mild
		Interstit Cell	Hyperplasia	Minimal
Note: DEGEN	TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 675

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042982

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	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Malignant Leukemia Mononuclear Carcinoma	Mild
* Bone Marrow			
* Islets, Pancreatic			
Note: CARCINOMA TGLs = 11-21			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-5-1]			
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Leukemia Mononuclear	Mild Moderate
[Leukemia Mononuclear TGLS = 6-6-1]			
* Lung		Fibrosis Hemorrhage Leukemia Mononuclear Necrosis	Focal, Mild Mild Focal, Mild
Note: LEUKEMIA MONUC TGLs = 7-2			
Note: NECROSIS TGLs = 7-2			
[Necrosis TGLS = 7-2]			
* Lymph Node	Mandibular Mediastinal Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 13	TRT#: 1	SEX: Male	DAY ON TEST: 675
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042982

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-21]			
Mesentery		Leukemia Mononuclear	
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA TGLs = 10-1-1			
Note: ANGIECTASIS TGLs = 10-1-1			
* Preputial Gland		Fibrosis	Mild
[Fibrosis TGLS = 1-8-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Leukemia Mononuclear	
* Trachea	Glands	Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 539

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* 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 - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 4-1			
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
Mesentery		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 3-1 [Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-8]			
* Prostate		Inflammation	Suppurative, Moderate
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 14	TRT#: 1	SEX: Male	DAY ON TEST: 539
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042983

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Minimal
[Degeneration TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 715

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 9-5-1			
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-6-1			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-22]			
[Leukemia Mononuclear TGLS = 2-8]			
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Nose		Inflammation	Suppurative, Minimal
* Preputial Gland		Adenoma	
		Inflammation	Suppurative, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 15	TRT#: 1	SEX: Male	DAY ON TEST: 715
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042984

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-8-1]			
[Inflammation TGLS = 3-8-1]			
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 7-21]			
[Leukemia Mononuclear TGLS = 6-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-7]			
* Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11-3			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 591

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------------|---------------------------|-----------------------------|
| * Adrenal Gland - Cortex | * 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 | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach - Forestomach | * Stomach - Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------|-------------------------|-------------|
| * Adrenal Gland | Medulla | Leukemia Mononuclear | |
| | Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| [Hyperplasia TGLS = 3-6-1] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 6-22 | | | |
| Note: LEUKEMIA MONUC TGLs = 5-21 | | | |
| [Leukemia Mononuclear TGLS = 1-8] | | | |
| [Leukemia Mononuclear TGLS = 7-5] | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 16	TRT#: 1	SEX: Male	DAY ON TEST: 591
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042985

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 513

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	Tooth	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
Note: ANOM HEPAT LOB TGLs = 3-21			
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Mild
* Lymph Node	Mandibular	Hyperplasia	Mild
[Hyperplasia TGLS = 2-8]			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland		Degeneration	Cystic, Minimal
Zymbal's Gland		Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 652

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042987

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
* Lung	* Lymph Node - Mandibular	* Mammary Gland	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 7-5-1]			
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia	Minimal Minimal
* Lymph Node	Mesenteric Renal Pancreatic	Angiectasis Angiectasis Hyperplasia	Mild Mild Mild
[Angiectasis TGLS = 10-22]			
[Angiectasis TGLS = 8-5]			
[Hyperplasia TGLS = 4-7]			
Mesentery		Inflammation	Chronic, Mild
[Necrosis TGLS = 3-21]	Fat	Necrosis	Mild
* Nose		Fungus Inflammation	Minimal Suppurative, Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Preputial Gland		Inflammation	Suppurative, Minimal
[Inflammation TGLS = 5-8]			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 18	TRT#: 1	SEX: Male	DAY ON TEST: 652
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042987

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Forestomach	Inflammation	Chronic, Mild
	Glandular	Inflammation	Chronic, Mild
	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
	[Adenoma TGLS = 2-7]		
	[Degeneration TGLS = 1-7]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87042988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
Ear	Pinna	Hyperplasia	Squamous, Mild
Note: [HYPERPLASIA] TGLs = 21			
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 8-23			
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5-1			
* Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6			
[Leukemia Mononuclear TGLs = 5-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-22			
* Mammary Gland		Dilatation	Moderate
Note: DILATATION TGLs = 3-8			
Mesentery		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 19	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87042988

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinar Cell	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6-1		
* Stomach	Glandular	Leukemia Mononuclear	
* Testes	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87042989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 4-5-1]			
* Liver	Biliar Tract	Degeneration Fibrosis Focal Cellular Change Hepatocellular Adenoma Hepatodiaphragmatic Nodule	Cystic, Minimal Minimal Mild
	Bile Duct	Hyperplasia Inflammation	Mild Minimal Focal, Minimal
Note: FOCAL CELL CH TGLs = 6-23			
Note: HEPATOCLR ADEN TGLs = 9-24			
[Focal Cellular Change TGLS = 7-21]			
* Mammary Gland		Dilatation	Minimal
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 8-22			
* Pancreas	Acinar Cell	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87042989

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 21 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 667
DOSE: VEHICLE CONTROL **DISP:** Moribund Sacrifice **HISTO:** A87042990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Kidney		Cyst Nephropathy	Mild Marked
Note: NEPHROPATHY TGLs = 4-5-1 [Nephropathy TGLS = 5-5-1]			
* Liver		Fatty Change Focal Cellular Change	Mild Minimal
	Bile Duct	Hyperplasia Inflammation Dilatation	Minimal Focal, Minimal Mild
* Mammary Gland			
Note: DILATATION TGLs = 1-8			
* Parathyroid Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 6-3			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ADENOMA TGLs = 7-1 Note: ANGIECTASIS TGLs = 7-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Forestomach, Mucosa Forestomach	Hyperplasia Inflammation	Papillary, Moderate Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 21	TRT#: 1	SEX: Male	DAY ON TEST: 667
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042990

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 8-4,8-4-1	Forestomach	Ulcer	Moderate
Note: HYPERPLASIA TGLs = 8-4,8-4-1			
Note: ULCER TGLs = 8-4			
* Testes	Germinal Epith	Degeneration	Moderate
Note: DEGEN TGLs = 3-7			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach - Forestomach	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland Note: PHEOCHROM BGN TGLs = 6-10	Bilateral, Medulla	Pheochromocytoma Benign	
Blood Vessel	Aorta	Mineralization	Moderate
	Mesent Artery	Mineralization	Mild
* Bone Marrow		Myelofibrosis	Mild
* Kidney Note: NEPHROPATHY TGLs = 7-5-1	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
* Liver		Angiectasis	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Minimal
* Lung Note: ALV BRON ADEN TGLs = 9-2	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Mild
* Lymph Node	Mandibular	Angiectasis	Mild
Mesentery		Hemorrhage	Moderate
		Inflammation	Chronic, Mild
	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 4-22 [Necrosis TGLS = 4-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 22	TRT#: 1	SEX: Male	DAY ON TEST: 674
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042991

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland		Cyst	Mild
Note: CYST	TGLs = 8-1-1		
* Skin		Squamous Cell Carcinoma	
* Stomach	Glandular, Mucosa	Hyperplasia	Moderate
	Glandular	Inflammation	Chronic, Mild
	Glandular	Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: ADENOMA	TGLs = 2-7		
[Adenoma TGLS = 3-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87042992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	Eye	* Heart	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Kidney		Cyst	Marked
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 6-5-1 [Nephropathy TGLS = 7-5-1]			
* Liver	Biliar Tract	Degeneration	Cystic, Minimal
		Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
		Hyperplasia	Focal, Moderate
		Pigmentation	Moderate
[Hyperplasia TGLS = 8-1]			
* Preputial Gland		Adenoma	
		Inflammation	Suppurative, Mild
[Adenoma TGLS = 2-22] [Inflammation TGLS = 2-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 23	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87042992

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Mild
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: ADENOMA	TGLs = 4-7		
Note: DEGEN	TGLs = 3-7		
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 446

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A86037816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Congestion	Moderate
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Nose		Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Focal Cellular Change	Minimal
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 674

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Bone | * Epididymis | * Esophagus | * Heart |
| * Intestine Large - Cecum | * Intestine Large - Colon | * Intestine Large - Rectum | * Intestine Small - Duodenum |
| * Intestine Small - Ileum | * Intestine Small - Jejunum | * Lymph Node - Mandibular | * Lymph Node - Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------|--------------------|-------------------------|----------------------|
| * Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| | Bilateral, Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Glioma Malignant | |
| Note: GLIOMA MAL | TGLs = 7-1-1 | | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Marked |
| Note: NEPHROPATHY | TGLs = 5-5-1 | | |
| * Liver | | Angiectasis | Minimal |
| | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Moderate |
| | | Leukemia Mononuclear | |
| Note: HYPERPLASIA | TGLs = 6-6 | | |
| Note: LEUKEMIA MONUC | TGLs = 6-6 | | |
| * Lung | | Leukemia Mononuclear | |
| Mesentery | | Inflammation | Chronic, Mild |
| | Fat | Necrosis | Moderate |
| Note: NECROSIS | TGLs = 3-21 | | |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 25	TRT#: 1	SEX: Male	DAY ON TEST: 674
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042993

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 8-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6-1		
* Testes		Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration
Note: DEGEN	TGLs = 2-7		Moderate
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 26

TRT#: 2

SEX: Male

DAY ON TEST: 94

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Kidney	* Liver	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* 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

* Adrenal Gland - Medulla

OBSERVATIONS

Harderian Gland	Hyperplasia	Lymphoid, Minimal
* Heart	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 27

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* 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

OBSERVATIONS

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 28

TRT#: 2

SEX: Male

DAY ON TEST: 95

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* 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

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 2

SEX: Male

DAY ON TEST: 95

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone
* Esophagus
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

OBSERVATIONS

* Heart
* Kidney

Inflammation
Nephropathy

Chronic, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 30

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* 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

OBSERVATIONS

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 459

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Salivary Glands
- * Stomach - Forestomach
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Seminal Vesicle
- * Stomach - Glandular

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Pituitary Gland
- * Skin
- * Thymus

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Preputial Gland
- * Spleen
- * Trachea

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstitial Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicle	Hyperplasia	Macrophage, Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 32 TRT#: 1 SEX: Male DAY ON TEST: 451
DOSE: VEHICLE CONTROL DISP: Moribund Sacrifice HISTO: A86037818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* 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	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain Note: COMPRESSION TGLs = 2-1		Compression	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Fatty Change	Minimal
		Hyperplasia	Mild
		Inflammation	Focal, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland Note: ADENOMA TGLs = 1-1	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 459

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Minimal
* Lung		Hyperplasia	Lymphoid, Minimal
* Lymph Node	Mandibular	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-8-1		
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 457

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lung		Fibrosis	Focal, Minimal
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-21		
* Testes	Interstit Cell	Adenoma	
* Thymus		Cyst	Minimal
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 5

SEX: Male

DAY ON TEST: 668

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043018

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 |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach - Forestomach | * Stomach - Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|----------------------|--------------------------------------|----------------------|------|
| * Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 7-6 | | |
| * Lung | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 12-25 | | |
| * Lymph Node | Iliac | Leukemia Mononuclear | |
| | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 8-22 | | |
| Note: LEUKEMIA MONUC | TGLs = 2-8 | | |
| Note: LEUKEMIA MONUC | TGLs = 10-24 | | |
| | [Leukemia Mononuclear TGLS = 9-23] | | |
| | [Leukemia Mononuclear TGLS = 5-21] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 36	TRT#: 5	SEX: Male	DAY ON TEST: 668
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043018

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland Note: DILATATION TGLs = 1-8		Dilatation	Moderate
Mesentery		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Leukemia Mononuclear	
Note: ADENOMA TGLs = 11-1-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6			
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 37

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-21]			
Mesentery		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: [ADENOMA] TGLs = 7			
[Degeneration TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lung | * Lymph Node - Mandibular |
| * Lymph Node - Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach - Forestomach | * Stomach - Glandular | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|---------------------------------|---------------------------|----------------------------------|-------------------|
| * Adrenal Gland | Medulla | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Mild |
| | Biliar Tract | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Note: FATTY CHANGE TGLs = 3-6 | | | |
| Note: INFILTRAT CELL TGLs = 3-6 | | | |
| Mesentery | | Inflammation | Chronic, Mild |
| * Preputial Gland | | Inflammation | Suppurative, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA TGLs = 2-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 5

SEX: Male

DAY ON TEST: 712

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Moderate
[Compression TGLS = 7-1-1]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-5]			
* Liver	Biliar Tract	Fatty Change	Minimal
		Fibrosis	Mild
	Bile Duct	Focal Cellular Change	Minimal
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Mammary Gland		Dilatation	Marked
		Inflammation	Chronic, Moderate
[Dilatation TGLS = 2-21,1-8]			
[Inflammation TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Glandular, Mucosa	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 39

TRT#: 5

SEX: Male

DAY ON TEST: 712

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043021

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Adenoma

Note: [ADENOMA] TGLs = 7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 40

TRT#: 5

SEX: Male

DAY ON TEST: 712

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-5			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 5

SEX: Male

DAY ON TEST: 530

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Gland - Cortex | * Bone | * 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 - Mandibular | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach - Forestomach | * Stomach - Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------------------|--------------|----------------------|----------------|
| * Adrenal Gland | Medulla | Hyperplasia | Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Atrophy | Mild |
| | | Hydrocephalus | Mild |
| Note: ATROPHY TGLs = 5-1 | | | |
| Note: HYDROCEPHALUS TGLs = 5-1 | | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-6 | | | |
| * Lung | Mediastinal | Leukemia Mononuclear | |
| * Lymph Node | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-21] | | | |
| * Mammary Gland | | Dilatation | Mild |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Focal, Minimal |
| * Spleen | | Fibrosis | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 2-6 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 41	TRT#: 5	SEX: Male	DAY ON TEST: 530
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043023

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes Note: ADENOMA TGLs = 1-7	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear
* Thyroid Gland Note: [ADENOMA] TGLs = 3	C Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:20
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 42 TRT#: 5 SEX: Male DAY ON TEST: 636
 DOSE: 0.0200% CHLORAMI DISP: Natural Death HISTO: A87043024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 1-10]		
* Brain		Compression	Moderate
	[Compression TGLS = 4-1]		
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
	Note: ANOM HEPAT LOB TGLs = 2-21		
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 3-1]		
	[Angiectasis TGLS = 3-1]		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Stomach	Forestomach	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 43

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland Note: PHEOCHROM BGN TGLs = 11-23	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large Note: LEUKEMIA MONUC TGLs = 15-4	Cecum	Leukemia Mononuclear	
* Kidney Note: NEPHROPATHY TGLs = 12-5		Nephropathy	Moderate
* Liver Note: HYPERPLASIA TGLs = 13-6 Note: ATROPHY TGLs = 13-6 Note: LEUKEMIA MONUC TGLs = 14-6,13-6	Centrilobular	Atrophy	Moderate
	Biliar Tract	Fatty Change	Mild
	Bile Duct	Fibrosis	Moderate
		Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
		Thrombosis	Mild
* Lung [Leukemia Mononuclear TGLs = 16-2]		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043025

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-8

Note: LEUKEMIA MONUC TGLs = 17-3

Mesentery

Leukemia Mononuclear

* Pancreas

Edema

Mild

Note: EDEMA TGLs = 7-7

* Pituitary Gland

Angiectasis

Mild

Pars Distalis

Hyperplasia

Focal, Mild

* Prostate

Inflammation

Suppurative, Mild

* Skin

Subcut Tiss

Fibroma

Note: FIBROMA TGLs = 1-21

* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 8-6

[Leukemia Mononuclear TGLS = 9-22]

* Testes

Bilateral, Interstit Cell

Adenoma

Germinal Epith

Degeneration

Moderate

Note: ADENOMA TGLs = 5-7

Note: DEGEN TGLs = 6-7

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 5

SEX: Male

DAY ON TEST: 591

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - 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 | * Lung | * Lymph Node - Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach - Forestomach | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------------|----------------|-----------------------|-------------------|
| * Heart | | Schwannoma Malignant | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Mild |
| | | Focal Cellular Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Focal, Minimal |
| * Lymph Node | Mandibular | Hyperplasia | Moderate |
| [Hyperplasia TGLS = 6-8,2-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Mild |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Stomach | Glandular | Inflammation | Chronic, Mild |
| * Testes | Interstit Cell | Adenoma | |
| | Interstit Cell | Hyperplasia | Minimal |
| Note: DEGEN TGLs = 3-7 | | | |
| Note: [ADENOMA] TGLs = 7 | | | |
| Zymbal's Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
Mesentery		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 46

TRT#: 5

SEX: Male

DAY ON TEST: 656

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043028

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
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Angiectasis	Moderate
	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-5		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-2]			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
[Leukemia Mononuclear TGLS = 1-8]			
* Mammary Gland		Fibroadenoma	
Mesentery		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Hyperplasia	Focal, Minimal
		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 46	TRT#: 5	SEX: Male	DAY ON TEST: 656
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043028

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-7			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 5

SEX: Male

DAY ON TEST: 591

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
Note: DEGEN TGLs = 1-21			
Note: CATARACT TGLs = 1-21			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6-1			
* Lung		Hemorrhage	Moderate
		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 48	TRT#: 5	SEX: Male	DAY ON TEST: 591
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043030

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-6			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [ADENOMA] TGLs = 7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 5

SEX: Male

DAY ON TEST: 591

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Nose
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Pancreas
- * Seminal Vesicle
- * Thyroid Gland

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Parathyroid Gland
- * Skin
- Tooth

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Mammary Gland
- * Pituitary Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver

- Leukemia Mononuclear
- Nephropathy
- Eosinophilic Focus
- Fibrosis
- Hyperplasia
- Leukemia Mononuclear

- Mild
- Mild
- Mild
- Moderate

Note: LEUKEMIA MONUC TGLs = 6-6-1

- * Lung

- Hemorrhage
- Leukemia Mononuclear

- Mild

Note: LEUKEMIA MONUC TGLs = 11-22

Note: HEMORRHAGE TGLs = 8-2

- * Lymph Node

- Bronchial
- Mediastinal
- Mesenteric
- Pancreatic

- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-5-1

Note: LEUKEMIA MONUC TGLs = 9-8

Note: LEUKEMIA MONUC TGLs = 3-7

- * Preputial Gland
- * Prostate
- * Spleen

- Inflammation
- Inflammation
- Leukemia Mononuclear

- Suppurative, Minimal
- Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 49	TRT#: 5	SEX: Male	DAY ON TEST: 591
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043031

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-6 Note: NECROSIS TGLs = 5-21		Necrosis	Focal, Mild
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
Note: [ADENOMA] TGLs = 7 * Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043032

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
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 2-21			
* Preputial Gland		Inflammation	Suppurative, Moderate
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 51

TRT#: 5

SEX: Male

DAY ON TEST: 577

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* 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 - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 8-1]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-5]			
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 6-2]			
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Moderate
[Dilatation TGLS = 1-8]			
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-22,2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			
* Prostate		Inflammation	Suppurative, Mild
* Stomach	Forestomach	Inflammation	Chronic, Mild
	Glandular	Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 51	TRT#: 5	SEX: Male	DAY ON TEST: 577
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043033

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

* Thyroid Gland

Degeneration

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6-1			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 2-8]			
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 5-22			
* Nose		Inflammation	Suppurative, Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Skin		Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 1-21			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52	TRT#: 5	SEX: Male	DAY ON TEST: 731
	DOSE: 0.0200% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043034

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-6		
* Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 3-7		
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign Nephropathy	Minimal Marked
* Kidney Note: NEPHROPATHY TGLs = 3-5			
* Liver	Bile Duct	Fatty Change Hyperplasia Inflammation Fungus Inflammation	Mild Minimal Focal, Minimal Mild
* Nose		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Forestomach	Inflammation	Chronic, Minimal
* Testes Note: ADENOMA TGLs = 2-7	Interstit Cell	Adenoma	
* Thyroid Gland		Degeneration	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 54	TRT#: 5	SEX: Male	DAY ON TEST: 731
	DOSE: 0.0200% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Eosinophilic Focus	Moderate
		Fibrosis	Minimal
	Bile Duct	Focal Cellular Change	Mild
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 5-2]		
* Pancreas		Accessory Spleen	Mild
	Note: ACCESSORY SPLN TGLs = 6-23		
* Preputial Gland		Carcinoma	
	[Carcinoma TGLS = 2-22]		
* Skin		Trichoepithelioma	
	[Trichoepithelioma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 4-6]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thyroid Gland		Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 54

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043036

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 55

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large - Rectum

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign Leukemia Mononuclear Nephropathy	Minimal
* Bone Marrow			
* Kidney			Moderate
Note: NEPHROPATHY TGLs = 6-5			
* Liver	Centrilobular	Atrophy Degeneration Fibrosis Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Cystic, Minimal Mild Mild Multifocal, Mild
Note: HYPERPLASIA TGLs = 8-6-1			
Note: LEUKEMIA MONUC TGLs = 8-6-1			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-2]			
* Lymph Node	Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Minimal
* Skin	Subcut Tiss	Fibroma Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 55	TRT#: 5	SEX: Male	DAY ON TEST: 731
	DOSE: 0.0200% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043037

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROMA TGLs = 2-22 Note: KERATOACANTHMA TGLs = 1-21 * Spleen		Fibrosis Leukemia Mononuclear	Mild
Note: FIBROSIS TGLs = 9-23 Note: LEUKEMIA MONUC TGLs = 7-6 * Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: ADENOMA TGLs = 4-7 Note: DEGEN TGLs = 5-7 * Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 5

SEX: Male

DAY ON TEST: 675

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Heart | * Intestine Large - Cecum | * Intestine Large - Rectum | * Intestine Small - Duodenum |
| * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic | * Lymph Node - Mandibular |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach - Forestomach |
| * Stomach - Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Intestine Large - Colon

OBSERVATIONS

- | | | | |
|-------------------------------------|--------------------------------------------|--------------------------------------------------------------------------|-------------------------------------|
| * Adrenal Gland | Cortex
Medulla | Focal Cellular Change
Pheochromocytoma Benign
Leukemia Mononuclear | Minimal |
| * Bone Marrow | | Nephropathy | Moderate |
| * Kidney | | Atrophy | Mild |
| * Liver | Centrilobular
Biliar Tract
Bile Duct | Fibrosis
Hyperplasia
Hyperplasia
Leukemia Mononuclear | Minimal
Mild
Multifocal, Mild |
| Note: HYPERPLASIA TGLs = 9-22 | | | |
| Note: HYPERPLASIA TGLs = 2-6 | | | |
| Note: LEUKEMIA MONUC TGLs = 2-6 | | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma
Leukemia Mononuclear | |
| Note: ALV BRON CARC TGLs = 3-21 | | | |
| [Leukemia Mononuclear TGLS = 7-2] | | | |
| * Lymph Node | Bronchial
Mediastinal
Mesenteric | Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-3] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 56	TRT#: 5	SEX: Male	DAY ON TEST: 675
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043038

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 6-1,5-1		
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
* Testes		Adenoma	
Note: ADENOMA	TGLs = 1-7	Bilateral, Interstit Cell	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 57

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-5]			
Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 57

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043039

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 58

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* 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 - Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 4-1		
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
Mesentery		Inflammation	Chronic, Mild
	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-22]			
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 5-1		
[Adenoma TGLS = 5-1]			
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 58	TRT#: 5	SEX: Male	DAY ON TEST: 731
	DOSE: 0.0200% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043040

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 6-21 [Leukemia Mononuclear TGLS = 3-6]			
* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Degeneration Hyperplasia	Moderate Minimal
Note: [ADENOMA] TGLs = 7 [Degeneration TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 59

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Epididymis		Edema	Moderate
* Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 3-21]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-5]			
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Thrombosis	Minimal
* Pancreas	Acinar Cell	Adenoma	
[Adenoma TGLS = 3-21]		Atrophy	Focal, Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Cyst	Moderate
* Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA	TGLs = 5-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 59

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043041

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Colon
* Islets, Pancreatic
* Mammary Gland
* Pituitary Gland
* Spleen
* Thyroid Gland

* Bone
* Esophagus
* Intestine Large - Rectum
* Lung
* Nose
* Salivary Glands
* Stomach - Forestomach
* Trachea

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Lymph Node - Mandibular
* Pancreas
* Seminal Vesicle
* Stomach - Glandular
* Urinary Bladder

* Brain
* Intestine Large - Cecum
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Parathyroid Gland
* Skin
* Thymus

OBSERVATIONS

* Adrenal Gland
* Intestine Small
 [Cyst TGLS = 3-22]
* Kidney
* Liver

Mesentery
 [Necrosis TGLS = 2-21]
* Preputial Gland
* Prostate
* Testes
 [Adenoma TGLS = 1-7]

Cortex
Ileum

Biliar Tract

Bile Duct

Fat

Bilateral, Interstit Cell

Focal Cellular Change
Cyst

Nephropathy
Degeneration
Fibrosis
Focal Cellular Change
Hyperplasia
Infiltration Cellular
Inflammation
Necrosis

Inflammation
Inflammation
Adenoma

Minimal
Moderate

Moderate
Cystic, Minimal
Mild
Minimal
Mild
Mixed Cell, Minimal
Focal, Mild
Moderate

Suppurative, Minimal
Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 6

SEX: Male

DAY ON TEST: 93

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mandibular
- * Pancreas
- * Prostate
- * Spleen
- * Thymus

- * Adrenal Gland - Medulla
- * Epididymis
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach - Forestomach
- * Thyroid Gland

- * Bone
- * Esophagus
- * Intestine Small - Duodenum
- * Liver
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach - Glandular
- * Trachea

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lung
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

OBSERVATIONS

Harderian Gland

Acinus

- Dilatation
- Hyperplasia
- Inflammation
- Necrosis
- Inflammation
- Nephropathy

- Minimal
- Lymphoid, Minimal
- Chronic, Minimal
- Minimal
- Chronic, Minimal
- Minimal

* Heart

* Kidney

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 62

TRT#: 6

SEX: Male

DAY ON TEST: 95

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* 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

OBSERVATIONS

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 63

TRT#: 6

SEX: Male

DAY ON TEST: 95

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* 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

OBSERVATIONS

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 64

TRT#: 6

SEX: Male

DAY ON TEST: 93

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Pancreas
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

* Bone
* Esophagus
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Prostate
* Spleen
* Thymus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart
* Kidney

Inflammation
Nephropathy

Chronic, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 65

TRT#: 6

SEX: Male

DAY ON TEST: 94

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney	* Liver
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* 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

* Heart		Inflammation	Chronic, Minimal
* Lymph Node	Mediastinal	Congestion	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 66

TRT#: 5

SEX: Male

DAY ON TEST: 458

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Moderate
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstitial Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		
* Thyroid Gland	Follicle	Hyperplasia	Macrophage, Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 67

TRT#: 5

SEX: Male

DAY ON TEST: 457

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Nose		Exudate	Minimal
* Pancreas		Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 68 TRT#: 5 SEX: Male DAY ON TEST: 459
DOSE: 0.0200% CHLORAMI DISP: Scheduled Sacrifice HISTO: A86037886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
* Prostate		Inflammation	Suppurative, Mild
* Thyroid Gland	Follicle	Hyperplasia	Macrophage, Minimal
	Follicular Cel	Hyperplasia	Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 5

SEX: Male

DAY ON TEST: 458

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Preputial Gland
- * Stomach - Forestomach
- * Trachea

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Seminal Vesicle
- * Thymus

OBSERVATIONS

- * Adrenal Gland
- * Kidney
- * Liver

- Medulla
- Biliar Tract
- Bile Duct

- Fibrosis
- Nephropathy
- Fibrosis
- Hyperplasia
- Inflammation
- Necrosis

- Focal, Minimal
- Mild
- Minimal
- Mild
- Focal, Mild
- Moderate

Mesentery
[Necrosis TGLS = 2-22]

Fat

- Angiectasis
- Hyperplasia
- Inflammation
- Inflammation
- Necrosis
- Pigmentation

- Mild
- Focal, Mild
- Suppurative, Mild
- Chronic, Moderate
- Moderate
- Moderate

- * Pituitary Gland

Pars Distalis

- * Prostate
- * Skin

- Subcut Tiss
- Fat, Subcut Tiss
- Subcut Tiss

Note: NECROSIS TGLs = 1-21
 [Inflammation TGLS = 1-21]
 [Pigmentation TGLS = 1-21]

- * Testes

Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 70

TRT#: 5

SEX: Male

DAY ON TEST: 457

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
[Hepatodiaphragmatic Nodule TGLS = 3-22]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043151

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Pancreas		Atrophy	Focal, Minimal
		Cytoplasmic Alteration	Minimal
* Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-21			
* Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 4-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: DEGEN TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 9

SEX: Male

DAY ON TEST: 668

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043152

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 5-5			
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Iliac	Hyperplasia	Moderate
	Renal	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 6-22			
Note: HYPERPLASIA TGLs = 7-23			
* Mammary Gland		Dilatation	Moderate
Mesentery		Hemorrhage	Mild
	Fat	Necrosis	Moderate
Note: HEMORRHAGE TGLs = 1-21			
Note: NECROSIS TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA TGLs = 8-1			
* Prostate		Inflammation	Suppurative, Marked
Note: INFLAMMATION TGLs = 3-7			
* Seminal Vesicle		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 72	TRT#: 9	SEX: Male	DAY ON TEST: 668
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043152

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION	TGLs = 4-7		
* Stomach	Glandular	Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	Follicle	Cyst	Mild
	Follicular Cel	Hyperplasia	Mild
* Urinary Bladder		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 73

TRT#: 9

SEX: Male

DAY ON TEST: 614

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043153

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 3-22]			
* Pancreas		Atrophy	Focal, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Skin	Subcut Tiss	Lymphangiosarcoma	
Note: [LYMPHANGIOSARC] TGLs = 21			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 9

SEX: Male

DAY ON TEST: 631

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043154

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
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Gland	Medulla Cortex Medulla	Hyperplasia Leukemia Mononuclear Pheochromocytoma Benign	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Centrilobular Biliar Tract Bile Duct	Angiectasis Atrophy Fibrosis Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Mild Mild Mild Multifocal, Moderate
Note: LEUKEMIA MONUC TGLs = 5-6-1			
Note: HYPERPLASIA TGLs = 5-6-1			
Note: ATROPHY TGLs = 5-6-1			
* Lung		Hemorrhage Leukemia Mononuclear	Mild
* Lymph Node	Mandibular Mediastinal Mesenteric Pancreatic	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 74	TRT#: 9	SEX: Male	DAY ON TEST: 631
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043154

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 1-8		
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Edema	Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Stomach	Glandular	Erosion	Minimal
	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Leukemia Mononuclear	
Note: EROSION	TGLs = 6-4-1		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043155

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Intestine Large	Cecum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 3-6 [Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-21 [Leukemia Mononuclear TGLS = 2-21]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 75

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043155

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [ADENOMA] TGLs = 7

Note: [HYPERPLASIA] TGLs = 7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:20
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 76 TRT#: 9 SEX: Male DAY ON TEST: 675
 DOSE: 0.0100% CHLORAMI DISP: Moribund Sacrifice HISTO: A87043156

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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
* Stomach	Glandular	Erosion	Minimal
	Glandular	Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: DEGEN TGLs = 2-7			
* Thymus		Ectopic Parathyroid Gland	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 77

TRT#: 9

SEX: Male

DAY ON TEST: 562

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043157

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Islets, Pancreatic		Carcinoma	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Glandular	Edema	Mild
	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 78

TRT#: 9

SEX: Male

DAY ON TEST: 703

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043158

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
Eye	Retina	Degeneration	Moderate
	Sclera	Metaplasia	Osseous, Mild
Harderian Gland	Acinus	Dilatation	Mild
Note: DILATATION	TGLs = 4-9-1		
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-5		
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
* Mammary Gland		Adenocarcinoma	
		Dilatation	Minimal
		Metaplasia	Cartilagenous, Mild
Note: METAPL	TGLs = 2-22		
Note: ADENOCARC	TGLs = 2-22		
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 78

TRT#: 9

SEX: Male

DAY ON TEST: 703

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043158

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 9

SEX: Male

DAY ON TEST: 674

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043159

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
* Lymph Node - Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 80 **TRT#:** 9 **SEX:** Male **DAY ON TEST:** 730
DOSE: 0.0100% CHLORAMI **DISP:** Terminal Sacrifice **HISTO:** A87043160

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
* Lymph Node - Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 7-5,6-5			
* Liver	Biliar Tract	Angiectasis Fibrosis	Mild Mild
	Bile Duct	Hepatocellular Adenoma Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Multifocal, Moderate
Note: LEUKEMIA MONUC TGLs = 8-6			
Note: HEPATOCLR ADEN TGLs = 9-21			
Note: HYPERPLASIA TGLs = 8-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal Mesenteric Renal	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-22			
* Mammary Gland		Dilatation	Moderate
Note: DILATATION TGLs = 1-23			
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 80	TRT#: 9	SEX: Male	DAY ON TEST: 730
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043160

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 11-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Testes		Adenoma	
	Interstit Cell	Hyperplasia	Mild
	Interstit Cell		
Note: [HYPERPLASIA]	TGLs = 7		
Note: [ADENOMA]	TGLs = 7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 81

TRT#: 9

SEX: Male

DAY ON TEST: 596

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
Note: ANGIECTASIS TGLs = 3-1			
* Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-21			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 9

SEX: Male

DAY ON TEST: 591

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043162

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 1-8			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 3-21			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland	Bilateral	Carcinoma	
Note: CARCINOMA TGLs = 2-8-1			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Hyperplasia	Lymphoid, Mild
Tongue		Squamous Cell Papilloma	
Note: PAPILOMA SQUA TGLs = 4-22			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 9

SEX: Male

DAY ON TEST: 590

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043163

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 5-5			
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6-1			
* Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 7-2-1,7-2			
* Lymph Node	Mandibular	Angiectasis	Mild
	Mediastinal	Angiectasis	Mild
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-8			
[Leukemia Mononuclear TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 83	TRT#: 9	SEX: Male	DAY ON TEST: 590
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043163

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 8-1		
Note: ADENOMA	TGLs = 8-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Testes		Interstit Cell	Mild
Note: [HYPERPLASIA]	TGLs = 7		
* Urinary Bladder		Muscularis	Mild
Note: HYPERPLASIA	TGLs = 9-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 9

SEX: Male

DAY ON TEST: 675

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043164

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
		Hyperplasia	Histiocytic, Mild
Note: HEMA CELL PROL TGLs = 3-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: [ADENOMA] TGLs = 7			
* Thymus		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 9

SEX: Male

DAY ON TEST: 530

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043165

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Minimal
* Brain		Compression	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
Note: ANOM HEPAT LOB TGLs = 3-22			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 2-1			
Note: ANGIECTASIS TGLs = 2-1			
* Stomach	Glandular	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 9

SEX: Male

DAY ON TEST: 690

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043166

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
* Lung	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract Bile Duct	Fibrosis Focal Cellular Change Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Minimal Mild Multifocal, Mild
Note: HYPERPLASIA TGLs = 5-6-1 Note: LEUKEMIA MONUC TGLs = 5-6-1			
* Lymph Node	Mandibular Mediastinal	Leukemia Mononuclear Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
* Preputial Gland		Adenoma Inflammation	Suppurative, Minimal
Note: ADENOMA TGLs = 2-22			
* Prostate		Inflammation	Suppurative, Mild
* Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 86	TRT#: 9	SEX: Male	DAY ON TEST: 690
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043166

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes Note: [ADENOMA] TGLs = 7	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 87

TRT#: 9

SEX: Male

DAY ON TEST: 605

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043167

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large - Rectum

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 8-6-1

Note: ATROPHY TGLs = 8-6-1

Note: HYPERPLASIA TGLs = 8-6-1

* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Cyst	Moderate
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 1-8

Note: LEUKEMIA MONUC TGLs = 10-3

[Leukemia Mononuclear TGLS = 1-8]

[Leukemia Mononuclear TGLS = 9-5-1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 87	TRT#: 9	SEX: Male	DAY ON TEST: 605
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043167

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7-22]

* Nose		Fungus Inflammation	Moderate Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia Leukemia Mononuclear	Focal, Mild
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Fibrosis Leukemia Mononuclear	Mild
Note: LEUKEMIA MONUC	TGLs = 5-6		
Note: FIBROSIS	TGLs = 6-21		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043168

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Prostate
- * Stomach - Forestomach
- * Urinary Bladder

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Mammary Gland
- * Salivary Glands
- * Stomach - Glandular

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Pancreas
- * Seminal Vesicle
- * Thyroid Gland

- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Parathyroid Gland
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Gland
- * Bone Marrow
- * Kidney
- * Liver

Bilateral, Medulla

Pheochromocytoma Benign
 Leukemia Mononuclear
 Nephropathy
 Atrophy
 Fibrosis
 Hepatodiaphragmatic Nodule
 Hyperplasia
 Hyperplasia
 Leukemia Mononuclear

Mild
 Minimal
 Mild
 Mild
 Moderate
 Multifocal, Mild

Note: ANOM HEPAT LOB TGLs = 3-21

- * Lung
- * Lymph Node

Inguinal
 Mandibular
 Mediastinal
 Mesenteric

Leukemia Mononuclear
 Leukemia Mononuclear
 Leukemia Mononuclear
 Leukemia Mononuclear
 Leukemia Mononuclear
 Inflammation
 Leukemia Mononuclear
 Inflammation
 Leukemia Mononuclear

Suppurative, Minimal
 Suppurative, Minimal

Note: LEUKEMIA MONUC TGLs = 2-6

- * Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 88

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043168

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 9

SEX: Male

DAY ON TEST: 625

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043169

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 |
| * Nose | * Pancreas | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach - Forestomach |
| * Stomach - Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------------------------------------------------------------|---------------|-------------------------|----------------------|
| * Adrenal Gland | Medulla | Leukemia Mononuclear | |
| | Cortex | Necrosis | Moderate |
| | Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Centrilobular | Atrophy | Mild |
| | Biliar Tract | Fibrosis | Mild |
| | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Multifocal, Moderate |
| | | Leukemia Mononuclear | |
| Note: HYPERPLASIA TGLs = 3-21,5-23
[Leukemia Mononuclear TGLS = 4-22] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| * Pituitary Gland | | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Inflammation | Suppurative, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 89	TRT#: 9	SEX: Male	DAY ON TEST: 625
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043169

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 2-6		Leukemia Mononuclear
* Testes Note: ADENOMA TGLs = 1-7	Bilateral, Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 9

SEX: Male

DAY ON TEST: 656

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043170

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Mineralization	Minimal
* Brain		Compression	Marked
Note: COMPRESSION TGLs = 7-1			
* Islets, Pancreatic		Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 7			
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5			
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION TGLs = 1-21			
Mesentery		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 6-1			
Note: ADENOMA TGLs = 6-1			
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 90	TRT#: 9	SEX: Male	DAY ON TEST: 656
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043170

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Perforation	Marked
	Forestomach	Ulcer	Marked
Note: ULCER TGLs = 5-4			
Note: PERFORATION TGLs = 5-4			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 91

TRT#: 9

SEX: Male

DAY ON TEST: 590

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043171

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 2-1		
Note: ANGIECTASIS	TGLs = 2-1		
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		
* Testes	Interstitial Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 91	TRT#: 9	SEX: Male	DAY ON TEST: 590
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043171

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [HYPERPLASIA] TGLs = 7 Note: [ADENOMA] TGLs = 7 * Thymus * Thyroid Gland	Interstit Cell C Cell	Hyperplasia Leukemia Mononuclear Adenoma	Mild
---------------------------------------------------------------------------------------------	------------------------------	----------------------------------------------------	------

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 92

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043172

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lung	* Lymph Node - Mesenteric	* Mammary Gland
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-8			
* Nose		Fungus	Mild
		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-7			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 93

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043173

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
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Moderate
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: [FOCAL CELL CH] TGLs = 10			
Note: [HYPERPLASIA] TGLs = 10			
Note: [PHEOCHROM BGN] TGLs = 10			
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Moderate
Note: ADENOMA TGLs = 6-5			
Note: NEPHROPATHY TGLs = 5-6			
* Liver		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild
* Skin		Basal Cell Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 93	TRT#: 9	SEX: Male	DAY ON TEST: 730
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043173

ORGAN AND ACCOUNTABLE SITE STATUS

Note: BASAL CEL ADEN TGLs = 1-21		Hyperkeratosis	Moderate
Note: HYPERKERATOSIS TGLs = 2-22		Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 2-22			
* Spleen		Angiectasis	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-7			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 9

SEX: Male

DAY ON TEST: 591

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043174

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Colon	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large - Cecum

OBSERVATIONS

* Adrenal Gland	Cortex	Adenoma	
	Cortex	Mineralization	Mild
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 3-1		
Note: ANGIECTASIS	TGLs = 3-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 94	TRT#: 9	SEX: Male	DAY ON TEST: 591
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043174

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-6		Fibrosis	Mild
* Testes	Bilateral, Interstit Cell	Leukemia Mononuclear	
Note: ADENOMA TGLs = 1-7		Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043175

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Mild
	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-8-1		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 4-1		
Note: ANGIECTASIS	TGLs = 4-1		
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Angiectasis	Moderate
		Fibrosis	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 95	TRT#: 9	SEX: Male	DAY ON TEST: 730
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043175

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 3-21		
Note: FIBROSIS	TGLs = 3-21		
[Fibrosis TGLS = 2-6]			
* Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 6-7		
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 13

SEX: Male

DAY ON TEST: 627

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 4-1-1			
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
		Dilatation	Moderate
* Mammary Gland			
Note: DILATATION TGLs = 1-8-1			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 5-1			
* Prostate		Hyperplasia	Focal, Mild
		Inflammation	Suppurative, Minimal
Note: HYPERPLASIA TGLs = 6-7			
* Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 2-6			
* Thyroid Gland	C Cell	Adenoma	
		Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 106

TRT#: 13

SEX: Male

DAY ON TEST: 627

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043246

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107

TRT#: 13

SEX: Male

DAY ON TEST: 675

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* 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			

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 7-5			
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-6			
[Leukemia Mononuclear TGLS = 11-24]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-8			
Note: LEUKEMIA MONUC TGLs = 10-3			
Note: LEUKEMIA MONUC TGLs = 4-22			
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107	TRT#: 13	SEX: Male	DAY ON TEST: 675
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043247

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Skin		Trichoepithelioma	
Note: TRICHOEPITHEL TGLs = 1-21			
* Spleen		Fibrosis	Minimal
Note: LEUKEMIA MONUC TGLs = 5-6		Leukemia Mononuclear	
Note: FIBROSIS TGLs = 6-23			
* Testes	Interstit Cell	Adenoma	
Note: [ADENOMA] TGLs = 7	Interstit Cell	Hyperplasia	Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 108

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6			
[Hepatocellular Adenoma TGLS = 5-6]			
[Leukemia Mononuclear TGLS = 4-21]			
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-2,6-2-1			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Mild
* Pituitary Gland		Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 108	TRT#: 13	SEX: Male	DAY ON TEST: 730
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043248

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 7-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 6-21]			
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 1-8-1			
Note: HYPERPLASIA TGLs = 1-8-1			
* Prostate		Hyperplasia	Focal, Mild
		Inflammation	Suppurative, Mild
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Degeneration	Marked
[Adenoma TGLS = 2-7,5-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 109

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043249

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 3-7]

* Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 10-1-1			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 7-6]			
[Hyperplasia TGLS = 7-6]			
* Lymph Node	Mediastinal	Angiectasis	Mild
	Inguinal	Hyperplasia	Mild
	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 2-8			
Note: HYPERPLASIA TGLs = 8-3			
[Hyperplasia TGLS = 8-3]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-8-1			
* Pancreas	Acinar Cell	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 110	TRT#: 13	SEX: Male	DAY ON TEST: 730
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043250

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 9-1		
Note: ANGIECTASIS	TGLs = 9-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Fibrosis	Mild
Note: FIBROSIS	TGLs = 6-21		
* Testes		Adenoma	
[Adenoma TGLS = 3-7,4-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal
	Interstit Cell	Hyperplasia	Minimal
	C Cell		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111

TRT#: 13

SEX: Male

DAY ON TEST: 662

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 7-1			
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 4-22			
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
[Hyperplasia TGLs = 5-23]			
* Mammary Gland		Dilatation	Moderate
Note: DILATATION TGLs = 2-8			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Note: ADENOMA TGLs = 6-1			
Note: ANGIECTASIS TGLs = 6-1			
* Prostate		Inflammation	Suppurative, Moderate
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111	TRT#: 13	SEX: Male	DAY ON TEST: 662
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043251

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma
* Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 112

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Pancreas	Duct	Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [ADENOMA]	TGLs = 7		
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	C Cell	Carcinoma	
		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:20
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 113 TRT#: 13 SEX: Male DAY ON TEST: 614
 DOSE: 0.00500%CHLORAMI DISP: Moribund Sacrifice HISTO: A87043253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Moderate
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Cecum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6-1		
* Lung		Hemorrhage	Minimal
		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-22		
Note: LEUKEMIA MONUC	TGLs = 3-21		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 113

TRT#: 13

SEX: Male

DAY ON TEST: 614

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043253

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 7-3			
Note: LEUKEMIA MONUC	TGLs = 6-2-1			
Note: LEUKEMIA MONUC	TGLs = 9-8			
* Nose			Fungus Inflammation	Mild Suppurative, Moderate
* Pituitary Gland		Pars Distalis	Adenoma Angiectasis Leukemia Mononuclear	Mild
Note: ANGIECTASIS	TGLs = 8-1			
* Preputial Gland			Inflammation	Suppurative, Minimal
* Prostate			Inflammation	Suppurative, Mild
* Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6			
* Testes		Interstit Cell	Hyperplasia Leukemia Mononuclear	Mild
* Thymus				
PRIMARY CAUSE OF DEATH		-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 13

SEX: Male

DAY ON TEST: 668

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-8		
Mesentery		Inflammation	Chronic, Moderate
* Parathyroid Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 5-3		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 6-1-1		
Note: ANGIECTASIS	TGLs = 6-1-1		
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Marked
	Forestomach	Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 114

TRT#: 13

SEX: Male

DAY ON TEST: 668

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043254

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 4-4

Note: HYPERPLASIA TGLs = 4-4

Note: ULCER TGLs = 4-4

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

Note: [ADENOMA] TGLs = 7

* Thyroid Gland

Degeneration

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 13

SEX: Male

DAY ON TEST: 695

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043255

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 |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach - Forestomach | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------|--------------------|-------------------------|-------------------|
| * Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| | Bilateral, Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Thrombosis | Marked |
| Note: THROMBUS | TGLs = 7-5-1 | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Centrilobular | Atrophy | Moderate |
| | | Fatty Change | Moderate |
| | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Mild |
| | | Leukemia Mononuclear | |
| Note: FATTY CHANGE | TGLs = 6-6 | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Bronchial | Leukemia Mononuclear | |
| | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Focal, Minimal |
| | Duct | Dilatation | Mild |
| * Preputial Gland | | Inflammation | Suppurative, Mild |
| * Prostate | | Degeneration | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 115	TRT#: 13	SEX: Male	DAY ON TEST: 695
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043255

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Inflammation	Suppurative, Mild
Note: KERATOACANTHMA	TGLs = 1-21	Keratoacanthoma	
* Spleen		Leukemia Mononuclear	
* Stomach		Degeneration	Hyaline, Moderate
Note: DEGEN	TGLs = 9-4		
* Testes		Bilateral, Interstit Cell	
		Germinal Epith	
Note: DEGEN	TGLs = 3-7	Adenoma	
Note: ADENOMA	TGLs = 2-7	Degeneration	Moderate
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 116

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Pheochromocytoma Benign	
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
* Pancreas		Atrophy	Focal, Minimal
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
* Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 3-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 13

SEX: Male

DAY ON TEST: 625

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	Ear	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign Leukemia Mononuclear	Mild
* Bone Marrow		Nephropathy	Mild
* Kidney		Atrophy	Marked
* Liver	Centrilobular	Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-6-1			
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-2			
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 1-8
[Leukemia Mononuclear TGLS = 5-6]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 117

TRT#: 13

SEX: Male

DAY ON TEST: 625

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043257

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 9-3]

[Leukemia Mononuclear TGLS = 7-22]

[Leukemia Mononuclear TGLS = 11-2-1]

[Leukemia Mononuclear TGLS = 6-21]

Mesentery

Leukemia Mononuclear

* Pituitary Gland

Leukemia Mononuclear

* Preputial Gland

Inflammation

Suppurative, Mild

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-6

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Mild

Note: [ADENOMA] TGLs = 7

Note: [HYPERPLASIA] TGLs = 7

* Thyroid Gland

Degeneration

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 118

TRT#: 13

SEX: Male

DAY ON TEST: 729

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043258

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
* Lymph Node - Mandibular	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Biliar Tract	Degeneration Fibrosis Focal Cellular Change Hepatocellular Adenoma	Cystic, Mild Mild Mild
	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
Note: [HEPATOCLR ADEN] TGLs = 22			
* Lung		Alveolar/Bronchiolar Adenoma Leukemia Mononuclear	
* Lymph Node	Bronchial Mesenteric	Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-5-1			
* Mammary Gland		Dilatation	Minimal
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ADENOMA TGLs = 1-8			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 13

SEX: Male

DAY ON TEST: 729

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043258

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 1-8			
* Preputial Gland			Inflammation	Suppurative, Mild
* Prostate			Inflammation	Suppurative, Mild
* Skin		Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 1-21			
* Spleen		Trabecula	Fibrosis	Moderate
			Hyperplasia	Moderate
			Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 7-6			
Note: FIBROSIS	TGLs = 7-6			
Note: LEUKEMIA MONUC	TGLs = 3-6			
* Stomach		Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
		Forestomach	Inflammation	Chronic, Moderate
		Glandular	Mineralization	Mild
* Testes		Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 119

TRT#: 13

SEX: Male

DAY ON TEST: 668

DOSE: 0.00500%CHLORAMI

DISP: Natural Death

HISTO: A87043259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6-1			
* Lung	Bronchial	Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Hemorrhage	Marked
Note: ADENOMA TGLs = 5-1			
Note: HEMORRHAGE TGLs = 5-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 119

TRT#: 13

SEX: Male

DAY ON TEST: 668

DOSE: 0.00500%CHLORAMI

DISP: Natural Death

HISTO: A87043259

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 5-1		
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Stomach		Forestomach, Mucosa	Hyperplasia
		Forestomach	Inflammation
		Forestomach	Leukemia Mononuclear
Note: INFLAMMATION	TGLs = 6-4-1		
Note: HYPERPLASIA	TGLs = 6-4-1		
Note: LEUKEMIA MONUC	TGLs = 6-4-1		
* Testes		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 13

SEX: Male

DAY ON TEST: 613

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 8-22		
* Brain		Compression	Marked
Note: COMPRESSION	TGLs = 7-1-1		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 2-8		
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-8		
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 3-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Hemorrhage	Marked
Note: ANGIECTASIS	TGLs = 6-1		
Note: HEMORRHAGE	TGLs = 6-1		
Note: ADENOMA	TGLs = 6-1		
* Prostate		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 120

TRT#: 13

SEX: Male

DAY ON TEST: 613

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043260

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 5-7

* Spleen

Hematopoietic Cell Proliferation

Mild

* Testes

Germinal Epith

Degeneration

Moderate

Note: DEGEN TGLs = 4-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 121	TRT#: 13	SEX: Male	DAY ON TEST: 601
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Esophagus
* Heart	* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 6-7			
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Lung			
Note: LEUKEMIA MONUC TGLs = 4-2			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-21			
Mesentery		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Mild
		Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 121	TRT#: 13	SEX: Male	DAY ON TEST: 601
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043261

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 122

TRT#: 13

SEX: Male

DAY ON TEST: 729

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
Blood Vessel	Mesent Artery	Hypertrophy	Mild
	Mesent Artery	Inflammation	Chronic, Mild
	Mesent Artery	Mineralization	Mild
Note: HYPERTROPHY TGLs = 7-22,9-7-1			
Note: INFLAMMATION TGLs = 9-7-1			
Note: MINERALIZATION TGLs = 9-7-1			
* Bone Marrow		Myelofibrosis	Mild
Ear	Pinna	Squamous Cell Papilloma	
Note: PAPILOMA SQUA TGLs = 1-21			
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Moderate
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5			
* Liver		Angiectasis	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
Note: FOCAL CELL CH TGLs = 6-6			
[Fibrosis TGLS = 5-6-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 122

TRT#: 13

SEX: Male

DAY ON TEST: 729

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043262

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5-6-1]

Mesentery		Inflammation	Chronic, Mild
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 8-1		
* Preputial Gland		Degeneration	Cystic, Moderate
Note: DEGEN	TGLs = 2-8-1		
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Forestomach	Mineralization	Mild
	Glandular	Mineralization	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Marked
Note: DEGEN TGLs = 1-21			
Note: CATARACT TGLs = 1-21			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 5-6-1]			
* Pituitary Gland		Cyst	Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 3-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 13

SEX: Male

DAY ON TEST: 661

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Heart | * Intestine Large - Cecum | * Intestine Large - Rectum | * Intestine Small - Duodenum |
| * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach - Forestomach | * Stomach - Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|---------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------|
| * Adrenal Gland | Cortex
Medulla | Focal Cellular Change
Pheochromocytoma Benign
Leukemia Mononuclear | Minimal |
| * Bone Marrow | | | |
| * Intestine Large | Colon | Parasite Metazoan
Necrosis
Nephropathy | Minimal
Focal, Mild
Mild |
| * Kidney | | | |
| Note: NECROSIS TGLs = 5-22 | | | |
| * Liver | Centrilobular

Biliar Tract
Bile Duct | Atrophy
Fatty Change
Fibrosis
Hyperplasia
Hyperplasia
Leukemia Mononuclear | Mild
Minimal
Mild
Mild
Multifocal, Mild |
| Note: LEUKEMIA MONUC TGLs = 6-6 | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma
Leukemia Mononuclear | |
| Note: ALV BRON ADEN TGLs = 9-24 | | | |
| * Lymph Node | Mandibular
Mediastinal
Mesenteric | Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-5 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 124

TRT#: 13

SEX: Male

DAY ON TEST: 661

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043264

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-8		
* Pancreas	Atrophy	Focal, Minimal
* Pituitary Gland	Angiectasis	Mild
	Leukemia Mononuclear	
* Preputial Gland	Carcinoma	
Note: CARCINOMA TGLs = 1-21		
* Prostate	Inflammation	Suppurative, Minimal
* Spleen	Leukemia Mononuclear	
	Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 8-23		
Note: LEUKEMIA MONUC TGLs = 7-6		
* Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 3-7		
* Thymus	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 125

TRT#: 13

SEX: Male

DAY ON TEST: 645

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043265

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
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyperplasia Nephropathy	Minimal Moderate
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Centrilobular Bile Duct	Atrophy Fatty Change Hyperplasia Hyperplasia Leukemia Mononuclear	Moderate Moderate Mild Multifocal, Mild
Note: LEUKEMIA MONUC TGLs = 2-6 [Fatty Change TGLS = 2-6] [Hyperplasia TGLS = 2-6] [Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-5			
* Mammary Gland		Dilatation	Minimal
* Nose		Fungus	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 125	TRT#: 13	SEX: Male	DAY ON TEST: 645
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043265

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Inflammation Adenoma Angiectasis	Suppurative, Mild Mild
Note: ADENOMA TGLs = 5-1 Note: ANGIECTASIS TGLs = 6-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-6			
* Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 7-7			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:20
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 126

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043266

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
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6-1			
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
		Leukemia Mononuclear	
Note: ALV BRON ADEN TGLs = 7-2-1			
Note: ALV BRON CARC TGLs = 8-2-1			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-8			
Mesentery		Hemorrhage	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 126

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043266

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE * Nose	TGLs = 6-22		Fungus Inflammation Atrophy	Mild Suppurative, Moderate Focal, Mild
Note: ATROPHY * Pancreas	TGLs = 10-7			
* Pituitary Gland			Cyst	Minimal
* Prostate			Inflammation	Suppurative, Mild
* Spleen			Fibrosis Leukemia Mononuclear Sarcoma	Moderate
Note: SARCOMA Note: LEUKEMIA MONUC Note: FIBROSIS	TGLs = 4-21 TGLs = 4-21 TGLs = 4-21			
* Testes		Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: ADENOMA Note: DEGEN	TGLs = 3-7 TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 127

TRT#: 13

SEX: Male

DAY ON TEST: 473

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Compression	Marked
Note: COMPRESSION	TGLs = 3-1-1		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Minimal
* Mammary Gland		Dilatation	Moderate
Note: DILATATION	TGLs = 1-8-1		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 2-1		
Note: ADENOMA	TGLs = 2-1		
Note: ANGIECTASIS	TGLs = 2-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:20
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 128

TRT#: 13

SEX: Male

DAY ON TEST: 581

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Degeneration	Cystic, Minimal
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6,11-6 [Leukemia Mononuclear TGLs = 7-21]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Angiectasis	Moderate
	Mandibular	Hemorrhage	Mild
	Hemal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-22			
Note: LEUKEMIA MONUC TGLs = 15-24			
Note: HEMORRHAGE TGLs = 14-8-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 13

SEX: Male

DAY ON TEST: 581

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043268

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 9-3

Note: ANGIECTASIS TGLs = 14-8-1

Note: LEUKEMIA MONUC TGLs = 1-8-1

Note: LEUKEMIA MONUC TGLs = 16-25

* Mammary Gland

Mesentery

* Nose

* Pancreas

* Pituitary Gland

* Prostate

* Spleen

Pars Distalis

Dilatation

Leukemia Mononuclear

Fungus

Inflammation

Atrophy

Leukemia Mononuclear

Adenoma

Hyperplasia

Inflammation

Angiectasis

Fibrosis

Leukemia Mononuclear

Minimal

Moderate

Suppurative, Moderate

Focal, Mild

Focal, Mild

Suppurative, Mild

Mild

Mild

Note: ANGIECTASIS TGLs = 12-23

Note: LEUKEMIA MONUC TGLs = 3-6,4-6

[Leukemia Mononuclear TGLS = 12-23]

* Stomach

Note: EROSION TGLs = 10-4

* Testes

Note: ADENOMA TGLs = 2-7,13-7

* Thymus

Glandular

Bilateral, Interstit Cell

Erosion

Adenoma

Leukemia Mononuclear

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129

TRT#: 13

SEX: Male

DAY ON TEST: 701

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-5		
* Liver		Degeneration	Cystic, Minimal
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
* Lymph Node	Mesenteric	Angiectasis	Mild
	Pancreatic	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 3-21		
Note: ANGIECTASIS	TGLs = 5-5		
* Mammary Gland		Dilatation	Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 6-1		
Note: ANGIECTASIS	TGLs = 6-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129	TRT#: 13	SEX: Male	DAY ON TEST: 701
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043269

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Marked
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal

Note: [ADENOMA] TGLs = 7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:20

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lung | * Lymph Node - Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Stomach - Forestomach | * Stomach - Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|------------------------|---------------------------|----------------------------------|----------------------|
| * Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| Eye | Retina | Degeneration | Mild |
| Note: DEGEN | TGLs = 1-21 | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis | Minimal |
| | | Focal Cellular Change | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Focal, Minimal |
| * Lymph Node | Mandibular | Hyperplasia | Mild |
| * Pancreas | | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Hyperplasia | Focal, Minimal |
| | | Inflammation | Suppurative, Minimal |
| * Skin | | Squamous Cell Papilloma | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| Note: HEMA CELL PROL | TGLs = 3-6 | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:20
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 141

TRT#: 17

SEX: Male

DAY ON TEST: 652

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Trachea			

OBSERVATIONS

* Adrenal Gland	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL	TGLs = 7-10		
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small	Ileum	Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 8-5		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
Note: HYPERPLASIA	TGLs = 9-6		
Note: LEUKEMIA MONUC	TGLs = 9-6		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 13-2		
	[Leukemia Mononuclear TGLS = 13-2,12-2]		
* Lymph Node	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 141 **TRT#:** 17 **SEX:** Male **DAY ON TEST:** 652
DOSE: 0.0275% CHLORINE **DISP:** Moribund Sacrifice **HISTO:** A87043068

ORGAN AND ACCOUNTABLE SITE STATUS

Mediastinal	Leukemia Mononuclear	
Mesenteric	Leukemia Mononuclear	
Pancreatic	Leukemia Mononuclear	
Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-21		
Note: LEUKEMIA MONUC TGLs = 1-24		
[Leukemia Mononuclear TGLS = 4-7]		
[Leukemia Mononuclear TGLS = 10-23]		
Mesentery	Leukemia Mononuclear	
	Necrosis	Moderate
Note: NECROSIS TGLs = 14-22		
* Nose	Fungus	Mild
	Inflammation	Suppurative, Mild
* Pituitary Gland	Hyperplasia	Focal, Minimal
* Prostate	Inflammation	Suppurative, Minimal
* Spleen	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6		
* Testes	Adenoma	
	Hyperplasia	Mild
Note: [ADENOMA] TGLs = 7		
Note: [HYPERPLASIA] TGLs = 7		
* Thymus	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3]		
* Thyroid Gland	Degeneration	Cystic, Minimal
* Urinary Bladder	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 142

TRT#: 17

SEX: Male

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Marked
Note: [HYPERPLASIA] TGLs = 5 [Nephropathy TGLS = 2-5]			
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Mammary Gland		Dilatation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 17

SEX: Male

DAY ON TEST: 614

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Large - Rectum

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Moderate
		Inflammation	Focal, Mild
[Degeneration TGLS = 4-22]			
* Lymph Node	Mediastinal	Angiectasis	Mild
	Deep Cervical	Hyperplasia	Mild
Note: ANGIECTASIS TGLs = 6-24			
[Angiectasis TGLS = 8-26]			
Mesentery		Inflammation	Chronic, Moderate
	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pancreas		Atrophy	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 143

TRT#: 17

SEX: Male

DAY ON TEST: 614

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043070

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 9-6

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

Zymbal's Gland

Mixed Tumor Malignant

Note: MIXD TUMOR MAL TGLs = 7-25

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 144

TRT#: 17

SEX: Male

DAY ON TEST: 635

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A87043071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
Mesentery		Inflammation	Chronic, Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 17

SEX: Male

DAY ON TEST: 690

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Epididymis	* Esophagus
* Heart	* 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	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Minimal
Note: COMPRESSION	TGLs = 12-1		
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6-1,5-6-1		
Note: HYPERPLASIA	TGLs = 6-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-5-1		
Note: LEUKEMIA MONUC	TGLs = 10-23		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 145	TRT#: 17	SEX: Male	DAY ON TEST: 690
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043072

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 3-21		
Note: LEUKEMIA MONUC	TGLs = 9-22		
Note: LEUKEMIA MONUC	TGLs = 8-3		
* Mammary Gland		Dilatation	Minimal
Mesentery		Leukemia Mononuclear	
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Leukemia Mononuclear	
Note: ADENOMA	TGLs = 11-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 146

TRT#: 17

SEX: Male

DAY ON TEST: 652

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
	Centrilobular	Atrophy	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 4-21,3-6-1			
* Lung		Leukemia Mononuclear	
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 17

SEX: Male

DAY ON TEST: 690

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lymph Node - Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Cyst	Moderate
		Nephropathy	Mild
Note: CYST TGLs = 6-21			
* Liver	Centrilobular	Atrophy	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-6-1			
Note: HYPERPLASIA TGLs = 7-6-1			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 10-2-1			
[Leukemia Mononuclear TGLs = 9-2]			
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
Note: LEUKEMIA MONUC TGLs = 11-5			
Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 147	TRT#: 17	SEX: Male	DAY ON TEST: 690
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043074

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-7			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 148 **TRT#:** 17 **SEX:** Male **DAY ON TEST:** 668
DOSE: 0.0275% CHLORINE **DISP:** Moribund Sacrifice **HISTO:** A87043075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Bone Marrow		Myelofibrosis	Mild
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Cyst	Mild
		Nephropathy	Marked
Note: CYST TGLs = 6-5			
Note: NEPHROPATHY TGLs = 5-5			
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
Note: HYPERPLASIA TGLs = 7-6-1			
Note: INFILTRAT CELL TGLs = 7-6-1			
* Lung		Infiltration Cellular	Mixed Cell, Moderate
* Lymph Node	Renal	Angiectasis	Moderate
	Renal	Hyperplasia	Moderate
Note: ANGIECTASIS TGLs = 9-22			
Note: HYPERPLASIA TGLs = 9-22			
Mesentery		Inflammation	Chronic, Mild
* Nose		Fungus	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 148	TRT#: 17	SEX: Male	DAY ON TEST: 668
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043075

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland Note: HYPERPLASIA TGLs = 8-3		Inflammation Hyperplasia	Suppurative, Mild Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Spleen Note: HEMA CELL PROL TGLs = 3-6 Note: FIBROSIS TGLs = 4-21		Fibrosis Hematopoietic Cell Proliferation	Moderate Moderate
* Stomach	Glandular	Mineralization	Mild
* Testes Note: DEGEN TGLs = 2-7 Note: ADENOMA TGLs = 1-7	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 149

TRT#: 17

SEX: Male

DAY ON TEST: 618

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043076

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Biliar Tract	Degeneration	Cystic, Minimal
	Bile Duct	Fibrosis	Minimal
		Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 8-22			
* Lung		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Moderate
* Skin		Basal Cell Carcinoma	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 149

TRT#: 17

SEX: Male

DAY ON TEST: 618

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043076

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Degeneration

Hyperplasia

Cystic, Mild

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 17

SEX: Male

DAY ON TEST: 396

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A86037850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Gland - Medulla | * Bone | * 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 - Mandibular | * Lymph Node - Mesenteric | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach - Forestomach | * Thymus |
| * Thyroid Gland | * Trachea | | |

OBSERVATIONS

- | | | | |
|-----------------------------------------------------|---------------|----------------------|---------------------|
| * Adrenal Gland
Note: LEUKEMIA MONUC TGLs = 6-10 | Cortex | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain
Note: HEMORRHAGE TGLs = 9-1 | | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver
Note: LEUKEMIA MONUC TGLs = 7-6 | Centrilobular | Atrophy | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Multifocal, Minimal |
| | | Leukemia Mononuclear | |
| * Lung
Note: LEUKEMIA MONUC TGLs = 8-2 | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| * Nose | | Fungus | Mild |
| | | Inflammation | Suppurative, Mild |
| * Prostate
Note: EDEMA TGLs = 3-7 | | Edema | Mild |
| | | Leukemia Mononuclear | |
| * Spleen | | Fibrosis | Mild |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 150

TRT#: 17

SEX: Male

DAY ON TEST: 396

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A86037850

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 4-6			
Note: FIBROSIS	TGLs = 5-21			
* Stomach		Glandular	Erosion	Mild
		Glandular	Pigmentation	Focal, Mild
Note: PIGMENT	TGLs = 10-4			
Note: EROSION	TGLs = 10-4			
* Testes		Interstit Cell	Hyperplasia	Mild
* Urinary Bladder			Hemorrhage	Moderate
			Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 1-8			
Note: LEUKEMIA MONUC	TGLs = 1-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 17

SEX: Male

DAY ON TEST: 645

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043077

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Fore stomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Brain		Compression	Moderate
		Meningioma Nos	
Note: COMPRESSION	TGLs = 7-1		
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Inflammation	Focal, Mild
		Necrosis	Focal, Minimal
[Fatty Change TGLS = 4-6-1]			
[Hyperplasia TGLS = 3-6-1]			
* Mammary Gland		Dilatation	Mild
Pharynx	Palate	Squamous Cell Papilloma	
Note: PAPILOMA SQUA	TGLs = 5-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 6-1		
* Preputial Gland		Inflammation	Suppurative, Marked
[Inflammation TGLS = 1-8,2-8]			
* Prostate		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 151

TRT#: 17

SEX: Male

DAY ON TEST: 645

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043077

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach	Glandular	Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Hyperplasia	Minimal
Note: [HYPERPLASIA] TGLs = 7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 152

TRT#: 17

SEX: Male

DAY ON TEST: 622

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043078

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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 - Mandibular
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 5-1		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
Note: HYPERPLASIA	TGLs = 4-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 152	TRT#: 17	SEX: Male	DAY ON TEST: 622
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043078

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 6-1		
Note: ANGIECTASIS	TGLs = 6-1		
Spinal Cord		Hemorrhage	Moderate
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6-1		
* Testes		Adenoma	
Note: ADENOMA	TGLs = 1-7		
* Thyroid Gland		Degeneration	Cystic, Mild
* Urinary Bladder		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 2-8		

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 153

TRT#: 17

SEX: Male

DAY ON TEST: 731

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney [Nephropathy TGLS = 3-5]		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
Mesentery [Necrosis TGLS = 4-21]	Fat	Necrosis	Moderate
* Pancreas		Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 1-7]			
[Degeneration TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 17

SEX: Male

DAY ON TEST: 731

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large - Rectum

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-5]			
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
[Focal Cellular Change TGLS = 5-6]			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-7			
* Thyroid Gland	Follicle	Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:21
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 155

TRT#: 17

SEX: Male

DAY ON TEST: 731

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Nose	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Bone Marrow		Leukemia Mononuclear	
Ear		Schwannoma Nos	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 6-5			
* Liver	Centrilobular	Angiectasis	Mild
		Atrophy	Minimal
	Biliar Tract	Degeneration	Cystic, Mild
		Fibrosis	Mild
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: HEPATOCLR ADEN TGLs = 7-6			
Note: LEUKEMIA MONUC TGLs = 7-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-5			
Mesentery		Fibrosis	Mild
		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 155	TRT#: 17	SEX: Male	DAY ON TEST: 731
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043081

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS	TGLs = 4-7		
* Pancreas		Leukemia Mononuclear	
* Parathyroid Gland		Hyperplasia	Mild
* Preputial Gland		Adenoma	
		Inflammation	Suppurative, Marked
Note: INFLAMMATION	TGLs = 2-8-1		
* Prostate		Inflammation	Suppurative, Minimal
Note: INFLAMMATION	TGLs = 3-7		
* Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 9-21		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6,10-6		
* Testes		Bilateral, Interstit Cell	
Tongue		Adenoma	
		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 11-23		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 156

TRT#: 17

SEX: Male

DAY ON TEST: 732

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Angiectasis	Mild
		Fibrosis	Mild
	Bile Duct	Focal Cellular Change	Minimal
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21			
Mesentery		Hemorrhage	Mild
	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 3-22			
Note: HEMORRHAGE TGLs = 3-22			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Hyperplasia	Focal, Minimal
		Inflammation	Suppurative, Minimal
Note: INFLAMMATION TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 156	TRT#: 17	SEX: Male	DAY ON TEST: 732
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043082

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Mild
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 17

SEX: Male

DAY ON TEST: 690

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 6-23			
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver	Bile Duct	Cyst	Moderate
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
Note: CYST TGLs = 3-22			
* Mammary Gland		Dilatation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA TGLs = 4-1			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 5-7			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 158

TRT#: 17

SEX: Male

DAY ON TEST: 732

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mesenteric	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign Compression	Minimal Mild
* Brain Note: COMPRESSION TGLs = 5-1			
* Kidney [Nephropathy TGLS = 4-5]		Nephropathy	Moderate
* Liver	Biliar Tract Bile Duct	Fibrosis Focal Cellular Change Hyperplasia Inflammation	Mild Minimal Mild Focal, Mild
* Lymph Node	Mandibular	Hyperplasia Dilatation	Moderate Marked
* Mammary Gland [Dilatation TGLS = 1-21]			
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
Note: ADENOMA TGLs = 6-1			
* Preputial Gland [Degeneration TGLS = 2-8-1]		Degeneration	Cystic, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Glandular	Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 158

TRT#: 17

SEX: Male

DAY ON TEST: 732

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043084

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 159

TRT#: 17

SEX: Male

DAY ON TEST: 732

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
Note: COMPRESSION TGLs = 10-1			
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney	Renal Tubule	Adenoma Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 8-5			
Note: [ADENOMA] TGLs = 5			
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Leukemia Mononuclear	Mild Mild
Note: LEUKEMIA MONUC TGLs = 5-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-3			
* Mammary Gland		Dilatation Hyperplasia	Moderate Mild
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 159

TRT#: 17

SEX: Male

DAY ON TEST: 732

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043085

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 9-1	Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 9-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Minimal
* Testes	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Minimal
Note: DEGEN	TGLs = 1-7		
Note: [HYPERPLASIA]	TGLs = 7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 160

TRT#: 17

SEX: Male

DAY ON TEST: 605

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lymph Node - Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-5		
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 5-21		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7,6-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 161

TRT#: 17

SEX: Male

DAY ON TEST: 732

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043087

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Moderate
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
[Focal Cellular Change TGLS = 3-6]			
* Prostate		Hyperplasia	Focal, Minimal
		Inflammation	Suppurative, Minimal
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 4-6,2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 162

TRT#: 17

SEX: Male

DAY ON TEST: 591

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043088

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* 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	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS TGLs = 4-22			
* Brain		Compression	Moderate
[Compression TGLS = 6-1-1]			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Angiectasis	Minimal
		Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
		Dilatation	Moderate
* Mammary Gland			
[Dilatation TGLS = 1-21]			
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 3-7]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 162	TRT#: 17	SEX: Male	DAY ON TEST: 591
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043088

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes Note: [HYPERPLASIA] TGLs = 7	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland Tooth [Squamous Cell Carcinoma TGLS = 4-22]	Gingiva	Degeneration Squamous Cell Carcinoma	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 17

SEX: Male

DAY ON TEST: 732

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043089

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Mammary Gland
- * Salivary Glands
- * Stomach - Forestomach
- * Urinary Bladder

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Seminal Vesicle
- * Stomach - Glandular

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Parathyroid Gland
- * Skin
- * Thymus

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Prostate
- * Spleen
- * Trachea

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Mesenteric	Angiectasis	Moderate
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Degeneration	Cystic, Moderate
		Inflammation	Suppurative, Moderate
	[Degeneration TGLS = 1-8]		
	[Inflammation TGLS = 1-8]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 164

TRT#: 17

SEX: Male

DAY ON TEST: 732

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043090

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 7-22]		
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
	[Nephropathy TGLS = 8-5]	Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLS = 9-6-1]	Leukemia Mononuclear	
* Lung		Dilatation	Mild
* Mammary Gland			
	[Dilatation TGLS = 2-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 11-1]	Angiectasis	Moderate
	[Angiectasis TGLS = 11-1]		
* Prostate		Inflammation	Suppurative, Moderate
	[Inflammation TGLS = 5-7,4-7]		
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 164	TRT#: 17	SEX: Male	DAY ON TEST: 732
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043090

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Testes Note: [ADENOMA] TGLs = 7 Note: [HYPERPLASIA] TGLs = 7	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
* Thymus [Cyst TGLS = 10-3]		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 165

TRT#: 17

SEX: Male

DAY ON TEST: 661

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043091

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Centrilobular	Nephropathy	Mild
		Angiectasis	Mild
		Atrophy	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Lung			
Note: LEUKEMIA MONUC	TGLs = 8-22		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		
[Leukemia Mononuclear TGLS = 2-8]			
[Leukemia Mononuclear TGLS = 6-5]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 3-21		
Mesentery		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 165	TRT#: 17	SEX: Male	DAY ON TEST: 661
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043091

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Suppurative, Mild
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 166

TRT#: 18

SEX: Male

DAY ON TEST: 94

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* 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

OBSERVATIONS

Harderian Gland	Hyperplasia	Lymphoid, Minimal
	Inflammation	Chronic, Minimal
* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 167

TRT#: 18

SEX: Male

DAY ON TEST: 93

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* 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

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 18

SEX: Male

DAY ON TEST: 95

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone
* Esophagus
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

OBSERVATIONS

* Heart
* Kidney

Inflammation
Nephropathy

Chronic, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 169

TRT#: 18

SEX: Male

DAY ON TEST: 94

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lung
* Pancreas
* Prostate
* Spleen
* Thymus

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mandibular
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone
* Esophagus
* Intestine Small - Duodenum
* Kidney
* Lymph Node - Mesenteric
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Liver
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

MISSING

* Mammary Gland

OBSERVATIONS

* Heart

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 170

TRT#: 18

SEX: Male

DAY ON TEST: 93

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney	* Liver
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

Harderian Gland		Hyperplasia	Lymphoid, Minimal
		Inflammation	Chronic, Minimal
* Heart		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 17

SEX: Male

DAY ON TEST: 458

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - 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 | * Lung |
| * Lymph Node - Mandibular | * Lymph Node - Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|----------------|--------------|----------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| * Testes | Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 172

TRT#: 17

SEX: Male

DAY ON TEST: 459

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Hyperplasia	Mild
	Mesenteric	Hyperplasia	Mild
	Pancreatic	Hyperplasia	Minimal
	[Hyperplasia TGLS = 1-21]		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 173

TRT#: 17

SEX: Male

DAY ON TEST: 457

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	Tongue
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
Mesentery		Inflammation	Chronic, Minimal
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 17

SEX: Male

DAY ON TEST: 459

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
* Lung		Hyperplasia	Macrophage, Minimal
		Inflammation	Granulomatous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 17

SEX: Male

DAY ON TEST: 459

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Thymus

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Preputial Gland
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Pancreas
- * Prostate
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
* Lung		Hyperplasia	Macrophage, Minimal
		Pigmentation	Minimal
* Skin		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Adenoma	

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 176

TRT#: 21

SEX: Male

DAY ON TEST: 711

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043199

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node - Mandibular

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 14-1-1		
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 8-5		
* Liver	Biliar Tract	Fatty Change	Mild
	Bile Duct	Fibrosis	Minimal
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
Note: FATTY CHANGE	TGLs = 9-6-1		
* Lymph Node	Deep Cervical	Carcinoma	Metastatic (Thyroid Gland)
	Mediastinal	Carcinoma	Metastatic (Thyroid Gland)
Note: CARCINOMA	TGLs = 12-3		
Note: CARCINOMA	TGLs = 13-24		
* Mammary Gland		Dilatation	Moderate
Note: DILATATION	TGLs = 4-23,3-22		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 15-1		
Note: ADENOMA	TGLs = 15-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 176

TRT#: 21

SEX: Male

DAY ON TEST: 711

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043199

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Moderate
* Skin		Squamous Cell Carcinoma	
Note: SQUAM CEL CARC	TGLs = 1-21		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach	Glandular	Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Mild
Note: DEGEN	TGLs = 6-7		
Note: ADENOMA	TGLs = 5-7		
* Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 11-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 177

TRT#: 21

SEX: Male

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
Ear	Pinna	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 1-21		
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
* Liver	Centrilobular	Atrophy	Minimal
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
* Lung			
Note: LEUKEMIA MONUC	TGLs = 6-2		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 177	TRT#: 21	SEX: Male	DAY ON TEST: 730
	DOSE: 0.0140% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043200

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 7-1		
Note: ADENOMA	TGLs = 7-1		
* Preputial Gland		Degeneration	Cystic, Moderate
Note: DEGEN	TGLs = 2-8		
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Fibrosis	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 3-7		
* Thyroid Gland		C Cell	Adenoma
Note: [ADENOMA]	TGLs = 3		

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 178

TRT#: 21

SEX: Male

DAY ON TEST: 645

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87273201

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland Note: [HYPERPLASIA] TGLs = 10	Medulla	Hyperplasia	Mild
Eye Note: CATARACT TGLs = 1-21 Note: DEGEN TGLs = 1-21	Retina	Cataract Degeneration	Marked Marked
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney Note: NEPHROPATHY TGLs = 6-5		Nephropathy	Moderate
* Liver Note: ANOM HEPAT LOB TGLs = 7-24	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia Inflammation	Mild Minimal Focal, Minimal
* Lymph Node	Mandibular	Hyperplasia	Mild
* Pituitary Gland Note: ADENOMA TGLs = 9-1 Note: ANGIECTASIS TGLs = 9-1	Pars Distalis	Adenoma Angiectasis	Mild
* Preputial Gland Note: DEGEN TGLs = 4-8		Degeneration	Cystic, Mild
* Prostate		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 178	TRT#: 21	SEX: Male	DAY ON TEST: 645
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87273201

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Inflammation	Chronic, Mild
	Fat, Subcut Tiss	Necrosis	Mild
Note: INFLAMMATION	TGLs = 2-22		
Note: NECROSIS	TGLs = 3-23		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [HYPERPLASIA]	TGLs = 7		
Note: [ADENOMA]	TGLs = 7		
* Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 8-3		

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 21

SEX: Male

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043202

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Lymph Node	Mandibular	Hyperplasia	Minimal
* Mammary Gland		Hyperplasia	Mild
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Minimal
* Pituitary Gland		Hyperplasia	Tubular, Mild
Note: [HYPERPLASIA] TGLs = 1			
* Preputial Gland		Inflammation	Suppurative, Mild
Note: INFLAMMATION TGLs = 1-8			
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: DEGEN TGLs = 3-7			
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 21

SEX: Male

DAY ON TEST: 680

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 5-6-1			
Note: LEUKEMIA MONUC TGLs = 5-6-1			
Note: ATROPHY TGLs = 5-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 180	TRT#: 21	SEX: Male	DAY ON TEST: 680
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043203

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA	TGLs = 6-3		
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 21

SEX: Male

DAY ON TEST: 711

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043204

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Cyst	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
* Liver		Angiectasis	Minimal
		Degeneration	Cystic, Minimal
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Renal	Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 3-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 4-1		
Note: ADENOMA	TGLs = 4-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Glandular	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 181

TRT#: 21

SEX: Male

DAY ON TEST: 711

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043204

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
[Adenoma TGLS = 1-7]

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

Degeneration

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 182

TRT#: 21

SEX: Male

DAY ON TEST: 641

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043205

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
		Leukemia Mononuclear	
Note: COMPRESSION	TGLs = 9-1		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: LEUKEMIA MONUC	TGLs = 3-5		
Note: NEPHROPATHY	TGLs = 3-5		
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB	TGLs = 6-22		
Note: LEUKEMIA MONUC	TGLs = 5-6		
Note: FATTY CHANGE	TGLs = 5-6		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-2		
* Lymph Node	Bronchial	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 21

SEX: Male

DAY ON TEST: 641

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043205

ORGAN AND ACCOUNTABLE SITE STATUS

Inguinal	Leukemia Mononuclear
Lumbar	Leukemia Mononuclear
Mandibular	Leukemia Mononuclear
Mediastinal	Leukemia Mononuclear
Mesenteric	Leukemia Mononuclear
Renal	Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 11-8
 Note: LEUKEMIA MONUC TGLs = 14-24
 Note: LEUKEMIA MONUC TGLs = 12-8-1
 [Leukemia Mononuclear TGLS = 13-23]
 [Leukemia Mononuclear TGLS = 4-21]

* Mammary Gland

Note: DILATATION TGLs = 1-8

Dilatation Moderate

Mesentery

Leukemia Mononuclear

* Nose

Inflammation Suppurative, Minimal

* Pancreas

Atrophy Focal, Moderate

* Pituitary Gland

Pars Distalis

Adenoma
Angiectasis Mild

Note: ADENOMA TGLs = 8-1

Note: LEUKEMIA MONUC TGLs = 8-1
[Leukemia Mononuclear TGLS = 8-1]

Inflammation Suppurative, Minimal

* Preputial Gland

Inflammation Suppurative, Moderate

* Prostate

* Spleen

Note: LEUKEMIA MONUC TGLs = 2-6

Leukemia Mononuclear

* Stomach

Forestomach

Edema Moderate

Glandular

Edema Mild

Forestomach, Mucosa

Hyperplasia Papillary, Moderate

Forestomach

Leukemia Mononuclear

Glandular

Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 182	TRT#: 21	SEX: Male	DAY ON TEST: 641
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043205

ORGAN AND ACCOUNTABLE SITE STATUS

[Edema TGLS = 10-4-1]	Forestomach	Ulcer	Moderate
* Testes	Interstit Cell	Adenoma	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 183

TRT#: 21

SEX: Male

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Pheochromocytoma Benign	
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-5			
* Liver	Biliar Tract	Cholangioma	
		Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: [CHOLANGIOMA] TGLs = 22			
Note: HYPERPLASIA TGLs = 7-6-1			
Note: LEUKEMIA MONUC TGLs = 7-6-1			
[Hyperplasia TGLs = 6-21]			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-8			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 183	TRT#: 21	SEX: Male	DAY ON TEST: 730
	DOSE: 0.0140% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043206

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 184

TRT#: 21

SEX: Male

DAY ON TEST: 590

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043207

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
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Lymph Node - Mesenteric
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-2		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-8		
Note: LEUKEMIA MONUC	TGLs = 5-21		
* Mammary Gland		Dilatation	Minimal
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 184

TRT#: 21

SEX: Male

DAY ON TEST: 590

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043207

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-6

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 185

TRT#: 21

SEX: Male

DAY ON TEST: 668

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-5		
* Liver	Biliar Tract	Fibrosis	Mild
		Hepatocellular Adenoma	Multiple, Two
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: HEPATOCLR ADEN	TGLs = 11-24		
Note: LEUKEMIA MONUC	TGLs = 6-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Angiectasis	Mild
	Bronchial	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 185	TRT#: 21	SEX: Male	DAY ON TEST: 668
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043208

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 10-5

Note: LEUKEMIA MONUC TGLs = 7-3

Note: ANGIECTASIS TGLs = 9-3

[Leukemia Mononuclear TGLS = 3-23]

Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 2-22			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 8-1			
* Prostate		Inflammation	Suppurative, Moderate
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 21

SEX: Male

DAY ON TEST: 498

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Gland - Cortex | * Bone | * Epididymis | * Esophagus |
| * Heart | * Intestine Large - Cecum | * Intestine Large - Colon | * Intestine Large - Rectum |
| * Intestine Small - Duodenum | * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach - Glandular | * Thymus |
| * Trachea | | | |

OBSERVATIONS

- | | | | |
|----------------------|---------------|----------------------|----------------------|
| * Adrenal Gland | Medulla | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |
| Note: HEMORRHAGE | TGLs = 14-1 | | |
| Note: LEUKEMIA MONUC | TGLs = 14-1 | | |
| * Kidney | | Nephropathy | Mild |
| Note: NEPHROPATHY | TGLs = 7-5-1 | | |
| * Liver | Centrilobular | Atrophy | Mild |
| | | Fatty Change | Moderate |
| | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 11-6 | | |
| * Lung | Mandibular | Leukemia Mononuclear | |
| * Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 1-8 | | |
| Note: LEUKEMIA MONUC | TGLs = 13-3 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 21

SEX: Male

DAY ON TEST: 498

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043209

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 12-23

[Leukemia Mononuclear TGLS = 5-21]

[Leukemia Mononuclear TGLS = 9-22]

Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 15-1			
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Marked
Note: INFLAMMATION TGLs = 3-7			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6-1			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Moderate
Note: ULCER TGLs = 10-4			
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	Follicle	Cyst	Mild
		Leukemia Mononuclear	
* Urinary Bladder		Hemorrhage	Marked
		Leukemia Mononuclear	
		Necrosis	Mild
Note: HEMORRHAGE TGLs = 2-8-1			
Note: NECROSIS TGLs = 2-8-1			
Note: LEUKEMIA MONUC TGLs = 2-8-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 187

TRT#: 21

SEX: Male

DAY ON TEST: 656

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5-1			
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung	Mediastinum	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC TGLs = 2-21			
* Mammary Gland		Dilatation	Mild
Mesentery		Inflammation	Chronic, Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 188

TRT#: 21

SEX: Male

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver		Congestion	Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 5-22]			
* Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 6-2-1			
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [ADENOMA] TGLs = 7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 21

SEX: Male

DAY ON TEST: 591

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Marked
	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-21		
Mesentery		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Salivary Glands		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-8		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [HYPERPLASIA]	TGLs = 7		
Note: [ADENOMA]	TGLs = 7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 189

TRT#: 21

SEX: Male

DAY ON TEST: 591

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043212

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 21

SEX: Male

DAY ON TEST: 673

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A87043213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* 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 - Mesenteric	* Nose	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Gland Note: [HYPERPLASIA] TGLs = 10	Medulla	Hyperplasia	Mild
* Brain Note: COMPRESSION TGLs = 8-1		Compression	Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Inflammation	Focal, Mild
* Lung		Congestion	Mild
* Lymph Node Note: ANGIECTASIS TGLs = 3-8	Mandibular	Angiectasis	Moderate
* Mammary Gland		Hyperplasia	Mild
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Hemorrhage	Marked
Note: ANGIECTASIS TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
Note: HEMORRHAGE TGLs = 7-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Skin		Hyperplasia	Squamous, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 190

TRT#: 21

SEX: Male

DAY ON TEST: 673

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A87043213

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 1-21		Inflammation	Chronic, Marked
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: DEGEN TGLs = 4-7			
[Adenoma TGLS = 5-7]			
* Urinary Bladder		Hemorrhage	Moderate
		Inflammation	Chronic, Moderate
Note: HEMORRHAGE TGLs = 6-8			
Note: INFLAMMATION TGLs = 6-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 21

SEX: Male

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* 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	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
Note: HYPERPLASIA	TGLs = 3-6		
* Lung		Congestion	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-2,4-2-1]			
* Pancreas		Atrophy	Focal, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 192

TRT#: 21

SEX: Male

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Preputial Gland

OBSERVATIONS

Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Subcut Tiss	Abscess	Mild
* Stomach	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 2-21			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 21

SEX: Male

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-5		
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Congestion	Mild
Note: ALV BRON ADEN	TGLs = 4-2		
Note: CONGESTION	TGLs = 3-2		
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland		Cyst	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 21

SEX: Male

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	Eye
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Pheochromocytoma Benign	
* Bone		Hyperostosis	Moderate
* Bone Marrow		Myelofibrosis	Moderate
* Kidney		Cyst	Mild
		Nephropathy	Marked
Note: CYST	TGLs = 6-22		
Note: NEPHROPATHY	TGLs = 5-5		
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Lymph Node	Mesenteric	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 4-5		
* Parathyroid Gland		Hyperplasia	Mild
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 194

TRT#: 21

SEX: Male

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043217

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

* Thyroid Gland

Follicle

Cyst

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 195

TRT#: 21

SEX: Male

DAY ON TEST: 529

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043218

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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 5-6-1			
Note: LEUKEMIA MONUC TGLs = 5-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Skin		Cyst Epithelial Inclusion	Mild
Note: CYST EPITH INC TGLs = 1-21			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 195	TRT#: 21	SEX: Male	DAY ON TEST: 529
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043218

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 4-6		Leukemia Mononuclear	
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Minimal
Note: DEGEN TGLs = 3-7			
Note: [ADENOMA] TGLs = 7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 21

SEX: Male

DAY ON TEST: 675

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	

MISSING

* Preputial Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
Eye	Lids	Schwannoma Nos	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 6-5		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA	TGLs = 7-6-1		
Note: LEUKEMIA MONUC	TGLs = 7-6-1		
Note: ATROPHY	TGLs = 7-6-1		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-2,8-2-1		
* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 196	TRT#: 21	SEX: Male	DAY ON TEST: 675
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043219

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-8 [Leukemia Mononuclear TGLS = 4-7]			
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-7			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 21

SEX: Male

DAY ON TEST: 645

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign Compression	Minimal Moderate
* Brain Note: COMPRESSION TGLs = 6-1			
* Intestine Large	Rectum	Parasite Metazoan Nephropathy	Minimal Moderate
* Kidney Note: NEPHROPATHY TGLs = 4-5			
* Liver	Centrilobular Biliar Tract Bile Duct	Atrophy Fatty Change Fibrosis Focal Cellular Change Hyperplasia Hyperplasia Leukemia Mononuclear	Minimal Mild Mild Mild Mild Multifocal, Mild
Note: LEUKEMIA MONUC TGLs = 3-6			
* Lung	Mandibular	Leukemia Mononuclear	
* Lymph Node	Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-5-1			
* Mammary Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 197	TRT#: 21	SEX: Male	DAY ON TEST: 645
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043220

ORGAN AND ACCOUNTABLE SITE STATUS

Penis Note: INFLAMMATION TGLs = 1-21		Inflammation	Chronic, Mild
* Pituitary Gland Note: ADENOMA TGLs = 7-1	Pars Distalis	Adenoma Angiectasis	Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen Note: LEUKEMIA MONUC TGLs = 2-6		Leukemia Mononuclear	
* Testes	Artery	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 21

SEX: Male

DAY ON TEST: 731

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign Nephropathy	Minimal Moderate
* Kidney Note: NEPHROPATHY TGLs = 2-5			
* Liver	Biliar Tract Bile Duct	Degeneration Fibrosis Focal Cellular Change Hyperplasia Inflammation	Cystic, Mild Minimal Mild Minimal Focal, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Angiectasis Hyperplasia	Mild Focal, Mild
Note: ANGIECTASIS TGLs = 3-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 199

TRT#: 21

SEX: Male

DAY ON TEST: 731

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Heart	* 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	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Esophagus		Inflammation	Chronic, Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Pancreas	Acinar Cell	Adenoma	Multiple
Note: [ADENOMA] TGLs = 21,22			
* Prostate		Inflammation	Suppurative, Minimal
* Skin	Subcut Tiss	Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7,1-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 21

SEX: Male

DAY ON TEST: 466

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lymph Node - Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 6-6-1			
Note: LEUKEMIA MONUC TGLs = 6-6-1			
Note: ATROPHY TGLs = 6-6-1			
* Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 7-2,7-2-1			
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 200	TRT#: 21	SEX: Male	DAY ON TEST: 466
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043223

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Mild
Note: DEGEN	TGLs = 3-7		
Note: [ADENOMA]	TGLs = 7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 25

SEX: Male

DAY ON TEST: 668

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043296

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
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
Eye		Atrophy	Moderate
		Cataract	Marked
Note: CATARACT	TGLs = 4-44		
Note: ATROPHY	TGLs = 4-44		
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Hemorrhage	Minimal
Note: HEMORRHAGE	TGLs = 6-8		
* Pancreas		Atrophy	Focal, Moderate
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 211	TRT#: 25	SEX: Male	DAY ON TEST: 668
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043296

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 2-6-1		Leukemia Mononuclear
* Testes Note: ADENOMA TGLs = 1-7	Bilateral, Interstit Cell	Adenoma
* Thymus		Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 25

SEX: Male

DAY ON TEST: 540

DOSE: 0.00700%CHLORINE

DISP: Natural Death

HISTO: A87043297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Marked
		Congestion	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6-1 [Leukemia Mononuclear TGLS = 4-6-1]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-21 Note: LEUKEMIA MONUC TGLs = 1-8			
Mesentery		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Suppurative, Moderate
* Preputial Gland		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 212	TRT#: 25	SEX: Male	DAY ON TEST: 540
	DOSE: 0.00700%CHLORINE	DISP: Natural Death	HISTO: A87043297

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 2-6		Leukemia Mononuclear	
* Stomach	Forestomach	Leukemia Mononuclear	
	Forestomach	Ulcer	Minimal
* Testes	Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 213

TRT#: 25

SEX: Male

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043298

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
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5-1			
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Hemorrhage	Minimal
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-21			
Note: LEUKEMIA MONUC TGLs = 5-3			
Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Hyperplasia	Tubular, Mild
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 213	TRT#: 25	SEX: Male	DAY ON TEST: 729
	DOSE: 0.00700%CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043298

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 2-6		Leukemia Mononuclear	
* Stomach	Forestomach, Mucosa Forestomach	Hyperplasia Leukemia Mononuclear	Papillary, Mild
* Testes Note: ADENOMA TGLs = 1-7	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 25

SEX: Male

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 2-5-1			
* Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Lymph Node	Mandibular	Hyperplasia	Mild
	Mesenteric	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 25

SEX: Male

DAY ON TEST: 591

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-8		
* Pancreas		Atrophy	Focal, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6-1		
* Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:21
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 216 TRT#: 25 SEX: Male DAY ON TEST: 596
 DOSE: 0.00700%CHLORINE DISP: Moribund Sacrifice HISTO: A87043301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 2-1			
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Mammary Gland		Dilatation	Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 1-1			
Note: ANGIECTASIS TGLs = 1-1			
* Prostate		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 25

SEX: Male

DAY ON TEST: 569

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------------|---------------------------|-----------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - Medulla | * Brain | * Epididymis |
| * Esophagus | * Heart | * Intestine Large - Cecum | * Intestine Large - Colon |
| * Intestine Large - Rectum | * Intestine Small - Duodenum | * Intestine Small - Ileum | * Intestine Small - Jejunum |
| * Lymph Node - Mandibular | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------|-------------------------------------|----------------------|---------------------|
| * Bone | | Hyperostosis | Moderate |
| * Bone Marrow | | Myelofibrosis | Moderate |
| * Islets, Pancreatic | | Adenoma | |
| Note: ADENOMA | TGLs = 4-22 | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Centrilobular | Atrophy | Moderate |
| | | Fatty Change | Moderate |
| | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 5-22 | | |
| Mesentery | Fat | Necrosis | Mild |
| Note: NECROSIS | TGLs = 2-21 | | |
| * Pancreas | | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Suppurative, Marked |
| Note: INFLAMMATION | TGLs = 8-7-1 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 217	TRT#: 25	SEX: Male	DAY ON TEST: 569
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043302

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 3-6		Leukemia Mononuclear	
* Testes	Interstit Cell	Hyperplasia Mineralization	Minimal Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 218

TRT#: 25

SEX: Male

DAY ON TEST: 493

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043303

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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-10		
Note: LEUKEMIA MONUC	TGLs = 3-10		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-1		
Note: HEMORRHAGE	TGLs = 7-1		
* Heart		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-22		
* Liver		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3		
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 1-21		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 218	TRT#: 25	SEX: Male	DAY ON TEST: 493
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043303

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 219

TRT#: 25

SEX: Male

DAY ON TEST: 675

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Glandular
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Brain		Compression	Moderate
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5,4-5		
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 1-8		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 6-1		
Note: ANGIECTASIS	TGLs = 6-1		
* Prostate		Inflammation	Suppurative, Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 219	TRT#: 25	SEX: Male	DAY ON TEST: 675
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043304

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes Note: ADENOMA TGLs = 2-7	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell Follicle	Adenoma Cyst	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 25

SEX: Male

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lung | * Lymph Node - Mandibular |
| * Lymph Node - Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach - Forestomach | * Stomach - Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------------------------------------|---------------------------|----------------------------|----------------|
| * Adrenal Gland
Note: PHEOCHROM MAL TGLs = 2-10 | Bilateral, Medulla | Pheochromocytoma Malignant | |
| * Kidney
Note: NEPHROPATHY TGLs = 3-5-1 | | Nephropathy | Moderate |
| * Liver | Biliar Tract | Fibrosis | Minimal |
| | Bile Duct | Focal Cellular Change | Minimal |
| | | Hyperplasia | Mild |
| | | Inflammation | Focal, Mild |
| * Pancreas | Acinar Cell | Adenoma | |
| | | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Testes
[Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 25

SEX: Male

DAY ON TEST: 590

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043306

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
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic	Minimal
Blood Vessel	Mesent Artery Aorta	Inflammation Mineralization	Chronic, Mild Marked
Note: MINERALIZATION TGLs = 8-23			
* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 5-5-1			
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Inflammation	Minimal Minimal Focal, Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node	Mediastinal Pancreatic	Angiectasis Hyperplasia	Mild Mild
Note: HYPERPLASIA TGLs = 4-22			
Note: ANGIECTASIS TGLs = 9-3			
* Mammary Gland		Dilatation	Moderate
Note: DILATATION TGLs = 1-8			
Mesentery		Inflammation	Chronic, Mild
* Parathyroid Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 7-3			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 221

TRT#: 25

SEX: Male

DAY ON TEST: 590

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043306

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 10-1			
Note: ADENOMA	TGLs = 10-1			
* Prostate			Inflammation	Suppurative, Mild
* Spleen			Fibrosis	Mild
Note: FIBROSIS	TGLs = 3-21			
* Stomach		Glandular, Mucosa	Degeneration	Moderate
		Forestomach, Mucosa	Hyperplasia	Papillary, Mild
		Glandular, Mucosa	Hyperplasia	Moderate
		Glandular	Inflammation	Chronic, Moderate
		Glandular	Mineralization	Moderate
* Testes		Germinal Epith	Degeneration	Moderate
		Artery	Inflammation	Chronic, Moderate
Note: DEGEN	TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 25

SEX: Male

DAY ON TEST: 625

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Gland Medulla Pheochromocytoma Benign
- * Kidney Nephropathy Marked
- Note: NEPHROPATHY TGLs = 4-5-1
- * Liver Biliar Tract Fibrosis Mild
- Bile Duct Hyperplasia Mild
- Inflammation Focal, Mild
- Hyperplasia Moderate
- * Lymph Node Mandibular
- Note: HYPERPLASIA TGLs = 1-8
- * Nose Inflammation Suppurative, Minimal
- * Pancreas Atrophy Focal, Minimal
- * Spleen Fibrosis Minimal
- Hematopoietic Cell Proliferation Mild
- * Stomach Forestomach, Mucosa Hyperplasia Papillary, Mild
- Forestomach Inflammation Chronic, Moderate
- Forestomach Ulcer Mild
- * Testes Interstit Cell Adenoma
- Interstit Cell Hyperplasia Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 25

SEX: Male

DAY ON TEST: 716

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Epididymis	* Esophagus
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 15-1		
* Heart		Leukemia Mononuclear	
* Intestine Small	Ileum	Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: LEUKEMIA MONUC	TGLs = 7-5-1		
Note: NEPHROPATHY	TGLs = 7-5-1		
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-6		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 13-2-1		
* Lymph Node	Axillary	Leukemia Mononuclear	
	Bronchial	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 223 **TRT#:** 25 **SEX:** Male **DAY ON TEST:** 716
DOSE: 0.00700%CHLORINE **DISP:** Moribund Sacrifice **HISTO:** A87043308

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-22		
Note: LEUKEMIA MONUC	TGLs = 2-21		
Note: LEUKEMIA MONUC	TGLs = 9-23		
Note: LEUKEMIA MONUC	TGLs = 12-3		
Note: LEUKEMIA MONUC	TGLs = 1-8-1		
	[Leukemia Mononuclear TGLS = 16-25]		
	[Leukemia Mononuclear TGLS = 10-24]		
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14-1		
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Suppurative, Minimal
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6-1		
* Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: ADENOMA	TGLs = 4-7		
Note: DEGEN	TGLs = 3-7		
* Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-3		
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 25

SEX: Male

DAY ON TEST: 680

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Cyst	Mild
	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-5-1		
* Liver		Congestion	Moderate
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
[Hyperplasia TGLs = 5-6]			
Mesentery		Inflammation	Chronic, Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Mild
* Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 6-3,7-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 224	TRT#: 25	SEX: Male	DAY ON TEST: 680
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043309

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 3-6			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Moderate
Note: INFLAMMATION TGLs = 8-4-1			
Note: ULCER TGLs = 8-4-1			
Note: HYPERPLASIA TGLs = 8-4-1			
Note: INFLAMMATION TGLs = 9-4-1			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 2-7]			
[Degeneration TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 25

SEX: Male

DAY ON TEST: 626

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Esophagus
* Intestine Small - Ileum
* Nose
* Salivary Glands
* Thyroid Gland

* Bone
* Intestine Large - Cecum
* Intestine Small - Jejunum
* Parathyroid Gland
* Seminal Vesicle
* Trachea

* Brain
* Intestine Large - Colon
* Islets, Pancreatic
* Preputial Gland
* Stomach - Forestomach
* Urinary Bladder

* Epididymis
* Intestine Small - Duodenum
* Mammary Gland
* Prostate
* Stomach - Glandular

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland
* Bone Marrow
* Heart
* Intestine Large
* Kidney

Medulla

Rectum

Pheochromocytoma Benign
Leukemia Mononuclear
Leukemia Mononuclear
Parasite Metazoan
Cyst
Leukemia Mononuclear
Nephropathy

Mild
Mild

Marked

Note: NEPHROPATHY TGLs = 4-5-1

* Liver

Centrilobular
Biliar Tract
Bile Duct

Atrophy
Fibrosis
Hyperplasia
Hyperplasia
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Atrophy
Leukemia Mononuclear

Mild
Minimal
Minimal
Multifocal, Minimal

* Lung

* Lymph Node

Mandibular
Mediastinal
Mesenteric
Pancreatic

Mesentery

* Pancreas

* Pituitary Gland

Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 225	TRT#: 25	SEX: Male	DAY ON TEST: 626
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043310

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin Note: KERATOACANTHMA TGLs = 1-21		Keratoacanthoma
* Spleen Note: LEUKEMIA MONUC TGLs = 3-6-1		Leukemia Mononuclear
* Testes Note: ADENOMA TGLs = 2-7	Bilateral, Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 226

TRT#: 25

SEX: Male

DAY ON TEST: 690

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1			
* Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 1-21			
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 25

SEX: Male

DAY ON TEST: 675

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 6-1-1		
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-8		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 227

TRT#: 25

SEX: Male

DAY ON TEST: 675

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043312

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS TGLs = 5-1

Note: ADENOMA TGLs = 5-1

* Prostate

Inflammation

Suppurative, Mild

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-6

* Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-7

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 25

SEX: Male

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Thrombosis	Moderate
Note: THROMBUS	TGLs = 15-5-1		
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 11-5		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
		Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-6		
[Leukemia Mononuclear TGLs = 13-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14-3		
Note: LEUKEMIA MONUC	TGLs = 8-7		
Note: LEUKEMIA MONUC	TGLs = 16-23		
Mesentery		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 228	TRT#: 25	SEX: Male	DAY ON TEST: 729
	DOSE: 0.00700%CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043313

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas Note: EDEMA TGLs = 7-7		Edema	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate Note: INFLAMMATION TGLs = 6-7		Inflammation	Suppurative, Moderate
* Skin Note: BASAL CEL CARC TGLs = 2-21		Basal Cell Carcinoma	
* Spleen Note: FIBROSIS TGLs = 10-22 Note: LEUKEMIA MONUC TGLs = 9-6		Fibrosis Leukemia Mononuclear	Mild
* Testes Note: ADENOMA TGLs = 5-7	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:21
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 229

TRT#: 25

SEX: Male

DAY ON TEST: 675

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mandibular	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
		Hepatocellular Adenoma	Multiple
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6-1			
* Lung	Alveolar Epith	Hyperplasia	Marked
		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Suppurative, Mild
* Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 229

TRT#: 25

SEX: Male

DAY ON TEST: 675

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043314

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 230

TRT#: 25

SEX: Male

DAY ON TEST: 720

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lung	* Lymph Node - Mandibular	* Mammary Gland
* Nose	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

Eye

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5		
* Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Mesenteric	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 4-5-1		
* Pancreas	Acinar Cell	Adenoma	
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Mild
* Stomach	Glandular	Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 231

TRT#: 25

SEX: Male

DAY ON TEST: 614

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043316

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 | * Lymph Node - Mandibular |
| * Lymph Node - Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|------------------------------------|---------------------------|------------------------------------------------------|-----------------------|
| * Adrenal Gland | Cortex
Medulla | Mesothelioma Malignant
Pheochromocytoma Benign | |
| Note: [MESOTHELIO MAL] TGLs = 10 | | | |
| * Bone Marrow | | Hyperplasia | Moderate |
| Note: [HYPERPLASIA] TGLs = 9 | | | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | Renal Tubule
Capsule | Hyperplasia
Mesothelioma Malignant
Nephropathy | Mild
Moderate |
| * Liver | Biliar Tract
Bile Duct | Fibrosis
Hyperplasia
Mesothelioma Malignant | Minimal
Mild |
| * Lung | Mediastinum | Mesothelioma Malignant | |
| * Lymph Node | Mediastinal | Mesothelioma Malignant | |
| Note: [MESOTHELIO MAL] TGLs = 3 | | | |
| Mesentery | | Mesothelioma Malignant | |
| * Pancreas | | Atrophy
Mesothelioma Malignant | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |
| * Preputial Gland | | Adenoma
Inflammation | Suppurative, Moderate |
| Note: ADENOMA TGLs = 2-22 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 231

TRT#: 25

SEX: Male

DAY ON TEST: 614

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043316

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 2-22		
Skeletal Muscle	Diaphragm	Mesothelioma Malignant
* Skin	Subcut Tiss	Fibroma
		Keratoacanthoma
		Squamous Cell Papilloma
Note: KERATOACANTHMA TGLs = 3-23		
Note: FIBROMA TGLs = 4-24		
Note: PAPILLOMA SQUA TGLs = 1-21		
* Testes	Bilateral, Interstit Cell	Adenoma
		Mesothelioma Malignant
Note: ADENOMA TGLs = 5-7		
Tissue NOS	Thoracic	Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 232

TRT#: 25

SEX: Male

DAY ON TEST: 503

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Colon	Parasite Metazoan	Mild
* Intestine Small	Ileum	Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 1-5-1		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 5-1		
Note: ADENOMA	TGLs = 5-1		
* Prostate		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 232

TRT#: 25

SEX: Male

DAY ON TEST: 503

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043317

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-6-1

* Thymus

Leukemia Mononuclear

* Thyroid Gland

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 233

TRT#: 25

SEX: Male

DAY ON TEST: 618

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 4-22			
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Minimal
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-6			
[Atrophy TGLS = 8-24]			
[Fibrosis TGLS = 12-26]			
[Hyperplasia TGLS = 9-25]			
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 25

SEX: Male

DAY ON TEST: 618

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043318

ORGAN AND ACCOUNTABLE SITE STATUS

	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-8		
Note: LEUKEMIA MONUC	TGLs = 11-3		
Note: LEUKEMIA MONUC	TGLs = 10-5		
Note: LEUKEMIA MONUC	TGLs = 3-21		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
		Cyst	Mild
		Hemorrhage	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 6-23		
Note: LEUKEMIA MONUC	TGLs = 5-6-1		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [ADENOMA]	TGLs = 7		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 25

SEX: Male

DAY ON TEST: 547

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-1		
Note: HEMORRHAGE	TGLs = 6-1		
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 5-5		
* Liver		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-22		
* Mammary Gland		Dilatation	Minimal
Mesentery		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen	Capsule	Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 234	TRT#: 25	SEX: Male	DAY ON TEST: 547
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043319

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6-1,3-21		
	[Leukemia Mononuclear TGLS = 3-21]		
* Stomach	Forestomach	Edema	Moderate
	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
	Forestomach	Ulcer	Moderate
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 25

SEX: Male

DAY ON TEST: 581

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Heart		Thrombosis	Moderate
Note: THROMBUS	TGLs = 4-5		
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland		Cyst	Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 25

SEX: Male

DAY ON TEST: 581

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043320

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 521

TRT#: 1

SEX: Male

DAY ON TEST: 570

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 9-1		
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Fatty Change	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Hyperplasia	Mild
	Pancreatic	Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 2-8		
[Hyperplasia TGLS = 6-21]			
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 521	TRT#: 1	SEX: Male	DAY ON TEST: 570
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87042994

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate [Inflammation TGLS = 3-7]	Inflammation	Suppurative, Marked
* Seminal Vesicle Note: INFLAMMATION TGLs = 4-7	Inflammation	Chronic, Marked
* Spleen [Hematopoietic Cell Proliferation TGLS = 5-6]	Hematopoietic Cell Proliferation	Moderate
* Urinary Bladder Transit Epithe	Hyperplasia Inflammation	Mild Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 522

TRT#: 1

SEX: Male

DAY ON TEST: 694

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042995

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	* Nose	* Parathyroid Gland
* Prostate	* Skin	* Thyroid Gland	* Trachea

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Hemorrhage	Marked
	Medulla	Hemorrhage	Marked
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Necrosis	Marked
	Medulla	Necrosis	Moderate
	Medulla	Pheochromocytoma Malignant	
Note: PHEOCHROM MAL	TGLs = 9-23		
Note: HEMORRHAGE	TGLs = 9-23		
Note: HEMORRHAGE	TGLs = 9-23		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 15-1		
* Heart		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 13-5		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 522

TRT#: 1

SEX: Male

DAY ON TEST: 694

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042995

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 10-6		Leukemia Mononuclear	
* Lung			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14-2			
* Lymph Node		Axillary	Leukemia Mononuclear	
		Bronchial	Leukemia Mononuclear	
		Deep Cervical	Leukemia Mononuclear	
		Inguinal	Leukemia Mononuclear	
		Mandibular	Leukemia Mononuclear	
		Mediastinal	Leukemia Mononuclear	
		Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-5			
Note: LEUKEMIA MONUC	TGLs = 16-24			
Note: LEUKEMIA MONUC	TGLs = 12-3			
	[Leukemia Mononuclear TGLS = 3-8]			
	[Leukemia Mononuclear TGLS = 2-22]			
* Mammary Gland			Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-21]			
Mesentery			Leukemia Mononuclear	
* Pancreas			Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-7]			
* Pituitary Gland			Leukemia Mononuclear	
* Preputial Gland			Leukemia Mononuclear	
* Salivary Glands			Leukemia Mononuclear	
* Seminal Vesicle			Leukemia Mononuclear	
* Spleen			Fibrosis	Mild
			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6			
* Stomach		Glandular	Erosion	Mild
		Forestomach	Inflammation	Chronic, Moderate
		Glandular	Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 522

TRT#: 1

SEX: Male

DAY ON TEST: 694

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042995

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Forestomach	Ulcer	Mild
	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
		Leukemia Mononuclear	
[Adenoma TGLS = 5-7]			
[Degeneration TGLS = 4-7]			
* Urinary Bladder		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-8-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 523

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87042996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-5-1]			
* Liver		Degeneration	Cystic, Minimal
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-21]			
* Nose		Fungus	Mild
		Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Mild
[Adenoma TGLS = 1-7]			
[Degeneration TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 524

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042997

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 |
| * Lymph Node - Mandibular | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach - Forestomach | * Stomach - Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------------|-------------------------|------------------|
| * Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| | Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Moderate |
| Note: NEPHROPATHY | TGLs = 3-5 | | |
| * Liver | | Angiectasis | Minimal |
| | Centrilobular | Atrophy | Minimal |
| | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Multifocal, Mild |
| | | Leukemia Mononuclear | |
| Note: HYPERPLASIA | TGLs = 4-6-1 | | |
| | [Leukemia Mononuclear TGLS = 4-6-1] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mesenteric | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 5-1 | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 524

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042997

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-6

* Testes

Bilateral, Interstit Cell

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 525

TRT#: 1

SEX: Male

DAY ON TEST: 569

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 3-1		
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8]			
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 526

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042999

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	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-10		
Note: LEUKEMIA MONUC	TGLs = 6-10		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 14-1		
[Leukemia Mononuclear TGLS = 14-1]			
* Heart		Leukemia Mononuclear	
* Kidney		Cyst	Moderate
		Leukemia Mononuclear	
Note: CYST	TGLs = 7-5	Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
Note: LEUKEMIA MONUC	TGLs = 8-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 526

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87042999

ORGAN AND ACCOUNTABLE SITE STATUS

Mandibular	Leukemia Mononuclear
Mediastinal	Leukemia Mononuclear
Mesenteric	Leukemia Mononuclear
Pancreatic	Leukemia Mononuclear
Renal	Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 12-3
 [Leukemia Mononuclear TGLS = 11-23]
 [Leukemia Mononuclear TGLS = 4-21]
 [Leukemia Mononuclear TGLS = 1-8]
 [Leukemia Mononuclear TGLS = 9-5-1]
 [Leukemia Mononuclear TGLS = 10-22]

Mesentery	Leukemia Mononuclear	
* Nose	Fungus	Minimal
	Inflammation	Suppurative, Minimal
* Pancreas	Atrophy	Focal, Mild
* Pituitary Gland	Leukemia Mononuclear	
* Prostate	Inflammation	Suppurative, Mild
* Spleen	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6		
* Testes	Bilateral, Interstit Cell	Adenoma
Note: ADENOMA TGLs = 2-7		
* Thymus	Leukemia Mononuclear	
* Thyroid Gland	C Cell	Carcinoma
		Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 13-3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 527

TRT#: 1

SEX: Male

DAY ON TEST: 315

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A86037894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 4-1		
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Moderate
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Moderate
[Fibrosis TGLS = 2-6]			
* Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 6-21		
Note: LEUKEMIA MONUC	TGLs = 3-2		
* Lymph Node	Mediastinal	Angiectasis	Moderate
	Bronchial	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 527

TRT#: 1

SEX: Male

DAY ON TEST: 315

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A86037894

ORGAN AND ACCOUNTABLE SITE STATUS

Mandibular

Leukemia Mononuclear

Mediastinal

Leukemia Mononuclear

Mesenteric

Leukemia Mononuclear

Mesentery

Leukemia Mononuclear

* Pituitary Gland

Leukemia Mononuclear

* Prostate

Inflammation

Suppurative, Minimal

* Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 528

TRT#: 1

SEX: Male

DAY ON TEST: 598

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Cyst	Mild
* Brain		Compression	Mild
[Compression TGLS = 11-1]			
Eye		Atrophy	Moderate
	Retrobulbar	Inflammation	Chronic, Moderate
[Atrophy TGLS = 1-21]			
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 8-5]			
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Mediastinal	Angiectasis	Mild
[Angiectasis TGLS = 9-3]			
* Mammary Gland		Dilatation	Mild
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 10-1]			
[Angiectasis TGLS = 10-1]			
* Preputial Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 3-8]			
* Prostate		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 528	TRT#: 1	SEX: Male	DAY ON TEST: 598
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87043000

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Ulcer	Moderate
* Testes	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Mild

[Degeneration TGLS = 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 529

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	Eye	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Brain		Compression	Minimal
[Compression TGLS = 8-1]			
* Islets, Pancreatic		Adenoma	
Note: ADENOMA	TGLs = 11-24		
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
[Nephropathy TGLS = 6-5]			
* Liver		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
[Dilatation TGLS = 2-22]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-23]			
* Pancreas	Acinar Cell	Adenoma	
Note: ADENOMA	TGLs = 11-24		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 7-1]			
[Angiectasis TGLS = 7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 529	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87043001

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate [Inflammation TGLS = 9-7]		Inflammation	Suppurative, Moderate
* Testes	Interstit Cell Germinal Epith Interstit Cell	Adenoma Degeneration Hyperplasia	Moderate Mild
Note: [ADENOMA] TGLs = 7 [Degeneration TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 530

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 8-5]			
* Liver		Degeneration	Cystic, Moderate
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
Note: DEGEN TGLs = 12-26			
[Fibrosis TGLS = 9-6]			
[Hyperplasia TGLS = 9-6]			
* Lung		Hyperplasia	Macrophage, Minimal
		Infiltration Cellular	Mixed Cell, Mild
Note: HYPERPLASIA TGLs = 10-2			
Note: INFILTRAT CELL TGLs = 10-2			
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
[Dilatation TGLS = 4-24]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 530	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87043002

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 3-23]			
* Parathyroid Gland		Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 11-3			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Skin		Inflammation	Chronic, Mild
		Keratoacanthoma	
[Inflammation TGLS = 1-21]			
[Keratoacanthoma TGLS = 2-22]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 7-25]			
* Stomach	Glandular	Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 5-7]			
[Degeneration TGLS = 6-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
		Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 531

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
[Inflammation TGLS = 3-21]			
* Kidney		Cyst	Mild
[Cyst TGLS = 5-5]		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lung	Pleura	Inflammation	Chronic, Mild
* Pancreas	Acinar Cell	Hyperplasia	Moderate
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 532

TRT#: 1

SEX: Male

DAY ON TEST: 537

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Mammary Gland	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 6-5-1]			
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Hemorrhage	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
[Fatty Change TGLS = 7-6-1]			
[Hyperplasia TGLS = 7-6-1]			
[Leukemia Mononuclear TGLS = 7-6-1]			
* Lung		Hemorrhage	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC			
TGLs = 8-2			
Note: HEMORRHAGE			
TGLs = 8-2,8-2-1			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 532	TRT#: 1	SEX: Male	DAY ON TEST: 537
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87043004

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-22]			
* Nose		Inflammation Leukemia Mononuclear	Suppurative, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Carcinoma Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-21]			
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 533

TRT#: 1

SEX: Male

DAY ON TEST: 618

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	Eye
* Heart	* 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	* Stomach - Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-10		
Note: LEUKEMIA MONUC	TGLs = 7-10		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 13-1-1		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 8-5-1		
Note: LEUKEMIA MONUC	TGLs = 8-5-1		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-6-1		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-2-1,10-2		
* Lymph Node	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 533	TRT#: 1	SEX: Male	DAY ON TEST: 618
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87043005

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 14-24 Note: LEUKEMIA MONUC TGLs = 11-3 [Leukemia Mononuclear TGLS = 6-23] [Leukemia Mononuclear TGLS = 3-8]	Pancreatic	Leukemia Mononuclear	
* Mammary Gland Note: DILATATION TGLs = 2-22		Dilatation	Moderate
* Nose	Mucosa	Hyperplasia Inflammation Leukemia Mononuclear	Squamous, Mild Suppurative, Mild
* Pancreas * Pituitary Gland Note: ADENOMA TGLs = 12-1-2	Pars Distalis	Atrophy Adenoma Leukemia Mononuclear	Focal, Minimal
* Spleen Note: LEUKEMIA MONUC TGLs = 5-6		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 534

TRT#: 1

SEX: Male

DAY ON TEST: 726

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign Compression	Minimal Moderate
* Brain Note: COMPRESSION TGLs = 10-1-1			
* Islets, Pancreatic		Carcinoma	
* Kidney [Nephropathy TGLS = 6-5-1]		Nephropathy	Moderate
* Liver	Biliar Tract Bile Duct	Fibrosis Hemorrhage Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Mild Mild Multifocal, Mild
Note: HYPERPLASIA TGLs = 8-6 [Hyperplasia TGLS = 9-6] [Leukemia Mononuclear TGLS = 8-6]			
* Mammary Gland [Dilatation TGLS = 1-24]		Dilatation	Moderate
* Nose		Fungus Inflammation	Mild Suppurative, Mild
* Pituitary Gland Note: ANGIECTASIS TGLs = 11-1-2	Pars Distalis	Adenoma Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 534	TRT#: 1	SEX: Male	DAY ON TEST: 726
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87043006

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 11-1-2		
* Skin		Subcut Tiss	Lipoma
	[Lipoma TGLS = 2-21]		
* Spleen			Fibrosis
			Leukemia Mononuclear
	[Fibrosis TGLS = 5-22]		Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 535

TRT#: 1

SEX: Male

DAY ON TEST: 638

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Brain		Compression	Minimal
Note: COMPRESSION TGLs = 6-1			
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 3-5-1]			
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Mediastinal	Angiectasis	Mild
[Angiectasis TGLS = 4-3]			
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 5-1-1]			
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 536

TRT#: 1

SEX: Male

DAY ON TEST: 516

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney
* Liver	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

Mesentery [Necrosis TGLS = 1-21]	Fat	Necrosis	Minimal
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 537

TRT#: 1

SEX: Male

DAY ON TEST: 618

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain		Compression	Marked
Note: COMPRESSION	TGLs = 6-1		
* Eye		Cataract	Marked
	Retina	Degeneration	Marked
Note: DEGEN	TGLs = 1-21		
[Cataract TGLS = 1-21]			
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-5		
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
		Dilatation	Moderate
* Mammary Gland		Inflammation	Suppurative, Minimal
[Dilatation TGLS = 2-8]			
* Nose		Adenoma	
* Pituitary Gland	Pars Distalis	Angiectasis	Moderate
Note: ADENOMA	TGLs = 5-1		
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 537

TRT#: 1

SEX: Male

DAY ON TEST: 618

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043009

ORGAN AND ACCOUNTABLE SITE STATUS

Tooth	Epithlm Alvlus	Cyst	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:21
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 538 TRT#: 1 SEX: Male DAY ON TEST: 687
 DOSE: VEHICLE CONTROL DISP: Moribund Sacrifice HISTO: A87043010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Heart
* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Marked
Note: COMPRESSION TGLs = 12-1			
* Intestine Large	Cecum	Edema	Moderate
	Cecum	Hemorrhage	Minimal
	Cecum	Inflammation	Chronic, Moderate
Note: EDEMA TGLs = 9-4			
Note: INFLAMMATION TGLs = 9-4			
Note: HEMORRHAGE TGLs = 9-4			
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 13-24			
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 538

TRT#: 1

SEX: Male

DAY ON TEST: 687

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043010

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-6
 [Leukemia Mononuclear TGLS = 7-23]

* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 10-3
 Note: LEUKEMIA MONUC TGLs = 8-5

Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

Note: ADENOMA TGLs = 11-1

* Prostate		Inflammation	Suppurative, Mild
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Note: INFLAMMATION TGLs = 3-7

* Skin		Keratoacanthoma	
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Note: KERATOACANTHMA TGLs = 1-21

* Spleen		Leukemia Mononuclear	
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Note: LEUKEMIA MONUC TGLs = 5-6

* Testes		Fibrosis	Mild
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Note: FIBROSIS TGLs = 2-7

Urethra	Bulboureth GI	Dilatation	Moderate
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Note: DILATATION TGLs = 4-22

* Urinary Bladder		Leukemia Mononuclear	
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 539

TRT#: 1

SEX: Male

DAY ON TEST: 659

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87043011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Islets, Pancreatic	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Intestine Small	Jejunum	Adenocarcinoma	
	Jejunum	Metaplasia	Osseous, Mild
Note: METAPL TGLs = 3-21 [Metaplasia TGLS = 3-21]			
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
* Lung		Congestion	Moderate
	Mediastinum	Hemorrhage	Moderate
		Hemorrhage	Mild
	Mediastinum	Inflammation	Chronic, Moderate
		Inflammation	Acute, Mild
Note: CONGESTION TGLs = 4-2			
* Lymph Node	Mediastinal	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 5-3			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
Mesentery		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 539

TRT#: 1

SEX: Male

DAY ON TEST: 659

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87043011

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate

Inflammation

Suppurative, Mild

* Thymus

Angiectasis

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 540

TRT#: 1

SEX: Male

DAY ON TEST: 697

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Bone | * Epididymis | * Esophagus | * Heart |
| * Intestine Large - Cecum | * Intestine Large - Colon | * Intestine Large - Rectum | * Intestine Small - Duodenum |
| * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach - Forestomach | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------|---------------|-------------------------|----------------------|
| * Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| | Medulla | Pheochromocytoma Benign | |
| Note: LEUKEMIA MONUC | TGLs = 9-25 | | |
| Note: PHEOCHROM BGN | TGLs = 9-25 | | |
| Note: LEUKEMIA MONUC | TGLs = 9-25 | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Mild |
| | | Leukemia Mononuclear | |
| Note: HEMORRHAGE | TGLs = 12-1 | | |
| * Kidney | | Nephropathy | Moderate |
| Note: NEPHROPATHY | TGLs = 10-5 | | |
| * Liver | Centrilobular | Atrophy | Moderate |
| | | Fatty Change | Minimal |
| | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Multifocal, Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 11-6 | | |
| Note: ATROPHY | TGLs = 11-6 | | |
| Note: HYPERPLASIA | TGLs = 11-6 | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mandibular | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 540

TRT#: 1

SEX: Male

DAY ON TEST: 697

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043012

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	Mesenteric	Leukemia Mononuclear	
Note: NECROSIS TGLs = 4-22	Fat	Necrosis	Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Leukemia Mononuclear	
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Spleen		Fibrosis	Mild
Note: FIBROSIS TGLs = 7-23		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-24,6-6			
* Stomach	Glandular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 13-4-1			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: DEGEN TGLs = 3-7		Leukemia Mononuclear	
Note: ADENOMA TGLs = 2-7			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 541

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Epididymis
* Intestine Large - Colon
* Islets, Pancreatic
* Nose
* Salivary Glands
* Stomach - Glandular

* Bone
* Esophagus
* Intestine Small - Duodenum
* Lymph Node - Mandibular
* Parathyroid Gland
* Seminal Vesicle
* Thymus

* Bone Marrow
* Heart
* Intestine Small - Ileum
* Lymph Node - Mesenteric
* Pituitary Gland
* Skin
* Trachea

* Brain
* Intestine Large - Cecum
* Intestine Small - Jejunum
* Mammary Gland
* Preputial Gland
* Stomach - Forestomach
* Urinary Bladder

OBSERVATIONS

* Adrenal Gland
* Intestine Large
[Adenocarcinoma TGLS = 6-22]

Bilateral, Medulla
Rectum

Pheochromocytoma Benign
Adenocarcinoma

* Kidney

Note: [HYPERPLASIA] TGLs = 5
[Dilatation TGLS = 4-5]
[Nephropathy TGLS = 3-5]

Pelvis
Pelvis, Transit Epithe
Renal Tubule

Dilatation
Hyperplasia
Hyperplasia
Nephropathy

Minimal
Minimal
Mild
Marked

* Liver

[Hyperplasia TGLS = 7-2-1]

Biliar Tract

Bile Duct

Fibrosis
Focal Cellular Change
Hyperplasia
Inflammation
Hyperplasia

Minimal
Mild
Mild
Focal, Mild
Mild

* Pancreas

* Prostate
* Spleen
[Hematopoietic Cell Proliferation TGLS = 2-6]

Acinar Cell

Adenoma
Atrophy
Inflammation
Hematopoietic Cell Proliferation

Focal, Mild
Suppurative, Minimal
Minimal

* Testes
Bilateral, Interstit Cell

Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 541	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87043013

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]		
* Thyroid Gland	C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:21
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 542

TRT#: 1

SEX: Male

DAY ON TEST: 541

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043014

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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex Cortex Medulla Bilateral, Medulla	Focal Cellular Change Leukemia Mononuclear Leukemia Mononuclear Pheochromocytoma Benign	Minimal
Note: PHEOCHROM BGN TGLs = 6-10,7-23			
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Mild
Note: NEPHROPATHY TGLs = 8-5-1			
* Liver	Centrilobular Biliar Tract Bile Duct	Atrophy Fibrosis Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Mild Mild Multifocal, Mild
Note: LEUKEMIA MONUC TGLs = 9-6			
Note: ATROPHY TGLs = 9-6			
Note: HYPERPLASIA TGLs = 9-6			
* Lung		Hemorrhage Hyperplasia Leukemia Mononuclear	Minimal Macrophage, Minimal
* Lymph Node	Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 542	TRT#: 1 DOSE: VEHICLE CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 541 HISTO: A87043014
ORGAN AND ACCOUNTABLE SITE STATUS			
Note: LEUKEMIA MONUC TGLs = 5-22 * Mammary Gland Mesentery * Pituitary Gland	Pancreatic Pars Distalis	Leukemia Mononuclear Adenoma Leukemia Mononuclear Adenoma Angiectasis Leukemia Mononuclear	 Moderate
Note: ANGIECTASIS TGLs = 10-1 Note: ADENOMA TGLs = 10-1 * Preputial Gland * Prostate * Spleen Note: LEUKEMIA MONUC TGLs = 4-6-1 * Testes	Interstit Cell Interstit Cell	Inflammation Inflammation Leukemia Mononuclear	Suppurative, Minimal Suppurative, Minimal
Note: [ADENOMA] TGLs = 7 * Thyroid Gland	C Cell	Adenoma Hyperplasia Adenoma	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 543

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87043015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney [Nephropathy TGLS = 6-5-1]		Nephropathy	Marked
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
* Lymph Node	Mandibular	Angiectasis	Mild
	Mandibular	Hyperplasia	Moderate
Mesentery [Angiectasis TGLS = 1-8] [Hyperplasia TGLS = 1-8]	Fat	Necrosis	Moderate
* Nose		Fungus	Moderate
		Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen [Fibrosis TGLS = 5-22]		Fibrosis	Moderate
* Testes [Adenoma TGLS = 3-7-1]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 544

TRT#: 1

SEX: Male

DAY ON TEST: 465

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Moderate
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
Mesentery			
[Inflammation TGLS = 4-22]			
* Preputial Gland		Adenoma	
		Degeneration	Cystic, Moderate
[Adenoma TGLS = 2-8-1]			
[Degeneration TGLS = 2-8-1]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland		Degeneration	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 545

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 5-5]			
* Liver		Atrophy	Focal, Mild
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
		Mineralization	Mild
Note: ANOM HEPAT LOB TGLs = 6-22			
[Atrophy TGLS = 6-22]			
[Mineralization TGLS = 6-22]			
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Mandibular	Angiectasis	Mild
	Mediastinal	Angiectasis	Mild
	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Mild
Note: ANGIECTASIS TGLs = 7-3			
Note: HYPERPLASIA TGLs = 7-3			
[Angiectasis TGLS = 1-8]			
[Hyperplasia TGLS = 1-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 545	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87043017

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 2-21]	Fat	Necrosis	Moderate
* Prostate		Inflammation	Suppurative, Minimal
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland		Degeneration	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 546

TRT#: 2

SEX: Male

DAY ON TEST: 94

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Bone
* Esophagus
* Intestine Small - Duodenum
* Kidney
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

OBSERVATIONS

* Heart

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 547

TRT#: 2

SEX: Male

DAY ON TEST: 94

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mandibular
- * Pancreas
- * Prostate
- * Spleen
- * Thymus

- * Adrenal Gland - Medulla
- * Epididymis
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach - Forestomach
- * Thyroid Gland

- * Bone
- * Esophagus
- * Intestine Small - Duodenum
- * Kidney
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach - Glandular
- * Trachea

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lung
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

OBSERVATIONS

- | | | |
|---------|--------------|------------------|
| * Heart | Inflammation | Chronic, Minimal |
| * Liver | Inflammation | Chronic, Minimal |

Note: TGL 1-21 IS HEPATIC DIAPHRAGMATIC NODULE, SEVERITY MODERATE

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:21
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 548

TRT#: 2

SEX: Male

DAY ON TEST: 93

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney
* Liver	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* 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		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 549

TRT#: 2

SEX: Male

DAY ON TEST: 95

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Bone
* Esophagus
* Intestine Small - Duodenum
* Kidney
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

OBSERVATIONS

* Heart

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:21

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 550

TRT#: 2

SEX: Male

DAY ON TEST: 94

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Bone
* Esophagus
* Intestine Small - Duodenum
* Kidney
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

OBSERVATIONS

* Heart

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 551

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	Minimal
	Medulla	Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 1-21		
* Nose		Inflammation	Suppurative, Moderate
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 552

TRT#: 1

SEX: Male

DAY ON TEST: 458

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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 - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 553

TRT#: 1

SEX: Male

DAY ON TEST: 457

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland Note: PHEOCHROM BGN TGLs = 2-21	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fatty Change	Minimal
		Fibrosis	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	Moderate
		Hyperplasia	Mild
		Inflammation	Focal, Mild
[Fatty Change TGLS = 3-22]			
* Lung Note: HYPERPLASIA TGLs = 4-2	Alveolar Epith	Hyperplasia	Mild
* Prostate		Inflammation	Suppurative, Mild
* Testes Note: ADENOMA TGLs = 1-7	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 554

TRT#: 1

SEX: Male

DAY ON TEST: 459

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Minimal
* Lymph Node	Mandibular	Hyperplasia	Mild
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 555

TRT#: 1

SEX: Male

DAY ON TEST: 457

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node	Mandibular	Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-8-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 556

TRT#: 5

SEX: Male

DAY ON TEST: 620

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 10-1		
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Cyst	Minimal
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 6-5-1		
Note: CYST	TGLs = 11-23		
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-8		
[Leukemia Mononuclear	TGLs = 5-22]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 556	TRT#: 5	SEX: Male	DAY ON TEST: 620
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043043

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-2]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 2-8		
* Pancreas		Accessory Spleen	Moderate
Note: ACCESSORY SPLN	TGLs = 4-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 9-1		
Note: ADENOMA	TGLs = 9-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 557

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Islets, Pancreatic	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Intestine Small - Ileum	* Intestine Small - Jejunum
---------------------------	-----------------------------

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Kidney		Cyst	Mild
		Nephropathy	Moderate
			[Cyst TGLS = 7-22]
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
			[Hyperplasia TGLS = 2-8]
			[Inflammation TGLS = 2-8]
* Prostate		Inflammation	Suppurative, Mild
* Skin	Subcut Tiss	Fibroma	
			[Fibroma TGLS = 1-21]
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Marked
			[Adenoma TGLS = 3-7]
			[Degeneration TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 557

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043044

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 558

TRT#: 5

SEX: Male

DAY ON TEST: 718

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Bone | * Epididymis | * Esophagus | * Heart |
| * Intestine Large - Cecum | * Intestine Large - Colon | * Intestine Large - Rectum | * Intestine Small - Duodenum |
| * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach - Forestomach | * Stomach - Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------|
| * Adrenal Gland | Cortex
Medulla | Focal Cellular Change
Pheochromocytoma Benign
Leukemia Mononuclear
Compression | Minimal

Minimal |
| * Bone Marrow | | | |
| * Brain | | | |
| Note: COMPRESSION | TGLs = 14-1 | | |
| * Kidney | | Nephropathy | Moderate |
| Note: NEPHROPATHY | TGLs = 7-5 | | |
| * Liver | Centrilobular | Atrophy
Fatty Change
Fibrosis
Hyperplasia
Leukemia Mononuclear | Moderate
Moderate
Mild
Mild |
| | Biliar Tract | | |
| | Bile Duct | | |
| Note: ATROPHY | TGLs = 8-6 | | |
| Note: LEUKEMIA MONUC | TGLs = 8-6 | | |
| * Lung | | Alveolar/Bronchiolar Adenoma
Leukemia Mononuclear | |
| Note: ALV BRON ADEN | TGLs = 11-2-1 | | |
| * Lymph Node | Bronchial
Mandibular
Mediastinal
Mesenteric | Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 558	TRT#: 5	SEX: Male	DAY ON TEST: 718
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043045

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 9-5 [Leukemia Mononuclear TGLS = 5-21] [Leukemia Mononuclear TGLS = 10-3]	Pancreatic	Leukemia Mononuclear	
* Mammary Gland Note: DILATATION TGLs = 1-8		Dilatation	Moderate
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 13-1 Note: ADENOMA TGLs = 13-1			
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
		Leukemia Mononuclear	
* Spleen Note: LEUKEMIA MONUC TGLs = 6-6		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: ADENOMA TGLs = 2-7 Note: DEGEN TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 559

TRT#: 5

SEX: Male

DAY ON TEST: 664

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 9-23			
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-3			
[Leukemia Mononuclear TGLS = 8-22]			
[Leukemia Mononuclear TGLS = 6-7]			
[Leukemia Mononuclear TGLS = 7-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 559	TRT#: 5	SEX: Male	DAY ON TEST: 664
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043046

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
Note: [HYPERPLASIA] TGLs = 1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6-1			
* Stomach	Forestomach	Ulcer	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-7			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 560

TRT#: 5

SEX: Male

DAY ON TEST: 587

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node - Mandibular

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
* Kidney		Nephropathy	Mild
		Pigmentation	Moderate
[Pigmentation TGLS = 6-5-1]			
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
Mesentery		Mesothelioma Malignant	
	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-21]			
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Nervosa	Focal Cellular Change	Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 561

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign Adenoma	
* Islets, Pancreatic			
Note: ADENOMA	TGLs = 3-21		
* Kidney		Nephropathy	Marked
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Pancreas		Atrophy	Focal, Mild
	Duct	Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Minimal
Note: INFLAMMATION	TGLs = 1-8		
* Prostate		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 562

TRT#: 5

SEX: Male

DAY ON TEST: 524

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone		Hyperostosis	Mild
* Bone Marrow		Myelofibrosis	Mild
Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
Note: DEGEN	TGLs = 1-22		
Note: CATARACT	TGLs = 1-22		
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 4-6-1]			
[Leukemia Mononuclear TGLS = 4-6-1]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 2-21		
* Pituitary Gland		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 562	TRT#: 5	SEX: Male	DAY ON TEST: 524
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043049

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [ADENOMA]	TGLs = 7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 563

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Mammary Gland
- * Prostate
- * Stomach - Forestomach
- * Trachea

- * Adrenal Gland - Medulla
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Nose
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Seminal Vesicle
- * Thymus

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Pituitary Gland
- * Skin
- * Thyroid Gland

OBSERVATIONS

- * Kidney
Note: NEPHROPATHY TGLs = 4-5

Nephropathy Moderate

- * Liver
Biliar Tract
- Bile Duct
- * Lymph Node
Mandibular
- Mediastinal
- Mesenteric
- Note: LEUKEMIA MONUC TGLs = 1-8

- Fibrosis Minimal
- Focal Cellular Change Mild
- Hyperplasia Minimal
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear

- * Pancreas
- * Preputial Gland
- * Spleen
- Note: LEUKEMIA MONUC TGLs = 3-6

- Atrophy Focal, Mild
- Inflammation Suppurative, Minimal
- Leukemia Mononuclear

- * Testes
Note: ADENOMA TGLs = 2-7

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 564

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lung	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: HEPATOCLR ADEN TGLs = 4-22 [Leukemia Mononuclear TGLS = 3-21]			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-3			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 564

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043051

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 565	TRT#: 5	SEX: Male	DAY ON TEST: 667
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Islets, Pancreatic		Adenoma	
Note: ADENOMA	TGLs = 5-24		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	Mild
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Mammary Gland		Dilatation	Minimal
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 3-22		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 4-1		
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Skin	Subcut Tiss	Fibroma	
Note: FIBROMA	TGLs = 1-21,2-22		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 565	TRT#: 5	SEX: Male	DAY ON TEST: 667
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043052

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 566

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5-1			
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 6-6]			
* Lung		Congestion	Minimal
Note: CONGESTION TGLs = 5-2			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pancreas	Acinar Cell	Adenoma	
		Atrophy	Focal, Mild
Note: ADENOMA TGLs = 8-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 566	TRT#: 5	SEX: Male	DAY ON TEST: 731
	DOSE: 0.0200% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043053

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-6			
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
[Degeneration TGLS = 1-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 567

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Cyst	Moderate
	Medulla	Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Inflammation	Focal, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 4-21			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: ADENOMA TGLs = 1-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 567

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043054

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DEGEN TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 568

TRT#: 5

SEX: Male

DAY ON TEST: 701

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
Note: ANOM HEPAT LOB TGLs = 4-21			
* Lymph Node	Mesenteric	Hyperplasia	Histiocytic, Mild
	Pancreatic	Hyperplasia	Histiocytic, Mild
Note: HYPERPLASIA TGLs = 6-22			
* Mammary Gland		Dilatation	Moderate
Note: DILATATION TGLs = 1-8			
* Nose		Fungus	Moderate
		Inflammation	Suppurative, Moderate
* Pancreas		Atrophy	Diffuse, Moderate
Note: ATROPHY TGLs = 3-7			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 5-1			
Note: ADENOMA TGLs = 5-1			
* Prostate		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 568	TRT#: 5	SEX: Male	DAY ON TEST: 701
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043055

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 569

TRT#: 5

SEX: Male

DAY ON TEST: 697

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* 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
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 7-5-1			
* Liver	Centrilobular	Angiectasis	Moderate
		Atrophy	Mild
		Degeneration	Cystic, Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-7,9-7			
[Degeneration TGLS = 10-23]			
[Leukemia Mononuclear TGLS = 10-23]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-8			
Note: LEUKEMIA MONUC TGLs = 6-7,6-22			
Note: LEUKEMIA MONUC TGLs = 11-2			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 569	TRT#: 5 DOSE: 0.0200% CHLORAMI	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 697 HISTO: A87043056
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
* Nose		Inflammation	Suppurative, Moderate
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Note: HYPERPLASIA	TGLs = 12-1		
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 5-21		
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Minimal
Note: [ADENOMA]	TGLs = 7		
Note: DEGEN	TGLs = 3-7		
* Thyroid Gland		Degeneration	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 570

TRT#: 5

SEX: Male

DAY ON TEST: 718

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex Cortex Medulla Bilateral, Medulla	Focal Cellular Change Leukemia Mononuclear Leukemia Mononuclear Pheochromocytoma Benign	Minimal
Note: PHEOCHROM BGN TGLs = 5-10			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage Leukemia Mononuclear	Moderate
Note: LEUKEMIA MONUC TGLs = 10-1-1			
Note: HEMORRHAGE TGLs = 10-1-1			
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 7-5			
* Liver	Centrilobular Biliar Tract Bile Duct	Atrophy Fatty Change Fibrosis Hyperplasia Leukemia Mononuclear	Moderate Moderate Mild Moderate
Note: LEUKEMIA MONUC TGLs = 6-6 [Leukemia Mononuclear TGLS = 6-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial Inguinal Mandibular	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 570 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 718
DOSE: 0.0200% CHLORAMI **DISP:** Moribund Sacrifice **HISTO:** A87043057

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-7		
Note: LEUKEMIA MONUC	TGLs = 9-21		
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 8-5		
* Pancreas		Atrophy	Focal, Moderate
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-23		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6,11-22		
* Stomach	Glandular	Edema	Mild
Note: EDEMA	TGLs = 12-4-1		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 571

TRT#: 5

SEX: Male

DAY ON TEST: 543

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	Mild
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
Note: ANOM HEPAT LOB TGLs = 3-22			
* Lymph Node	Mandibular	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-21			
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 2-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 572 **TRT#:** 5 **SEX:** Male **DAY ON TEST:** 719
DOSE: 0.0200% CHLORAMI **DISP:** Moribund Sacrifice **HISTO:** A87043059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 8-1-1			
* Islets, Pancreatic		Carcinoma	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 5-6-1]			
* Lung		Infiltration Cellular	Mixed Cell, Mild
Note: INFILTRAT CELL TGLs = 6-2			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-8			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
* Prostate		Inflammation	Suppurative, Mild
* Testes	Germinal Epith	Degeneration	Mild
Note: DEGEN TGLs = 2-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 572

TRT#: 5

SEX: Male

DAY ON TEST: 719

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043059

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 573

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043060

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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 3-5		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Moderate
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: ATROPHY	TGLs = 4-6-1		
[Leukemia Mononuclear TGLS = 4-6-1]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Note: [ADENOMA]	TGLs = 1		
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 573

TRT#: 5

SEX: Male

DAY ON TEST: 666

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043060

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-6

* Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-7

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 574

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043061

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
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Medulla Bilateral, Medulla	Leukemia Mononuclear Leukemia Mononuclear Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Hyperplasia Leukemia Mononuclear Nephropathy	Minimal Moderate
Note: LEUKEMIA MONUC TGLs = 3-5			
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Leukemia Mononuclear	Moderate Moderate
Note: LEUKEMIA MONUC TGLs = 4-6-1,5-6-1			
* Lung		Foreign Body Inflammation Leukemia Mononuclear	Mild Suppurative, Moderate
* Lymph Node	Inguinal Mandibular Mediastinal Mesenteric Pancreatic Renal	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-7-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 574

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043061

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-3

Note: LEUKEMIA MONUC TGLs = 7-21

* Mammary Gland

Mesentery

* Nose

* Pituitary Gland

Pars Distalis

Note: ADENOMA TGLs = 8-1

* Prostate

* Spleen

Note: LEUKEMIA MONUC TGLs = 2-6

* Testes

Note: ADENOMA TGLs = 1-7

* Thymus

* Thyroid Gland

C Cell

Dilatation

Leukemia Mononuclear

Fungus

Inflammation

Adenoma

Angiectasis

Leukemia Mononuclear

Inflammation

Leukemia Mononuclear

Leukemia Mononuclear

Adenoma

Leukemia Mononuclear

Hyperplasia

Mild

Mild

Suppurative, Mild

Mild

Suppurative, Mild

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 575

TRT#: 5

SEX: Male

DAY ON TEST: 619

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Kidney Note: NEPHROPATHY TGLs = 5-5		Nephropathy	Moderate
* Liver Mesentery Note: NECROSIS TGLs = 6-22	Biliar Tract Bile Duct Fat	Fibrosis Hyperplasia Necrosis	Minimal Mild Mild
* Pituitary Gland		Angiectasis	Mild
* Preputial Gland Note: [SARCOMA] TGLs = 8		Sarcoma	Metastatic (Uncertain Primary Site)
* Prostate		Sarcoma	Metastatic (Uncertain Primary Site)
Skeletal Muscle	Hindlimb	Sarcoma	Metastatic (Uncertain Primary Site)
* Skin	Subcut Tiss	Fibrous Histiocytoma	
* Spleen Note: HEMA CELL PROL TGLs = 4-6		Hematopoietic Cell Proliferation	Mild
* Testes [Adenoma TGLS = 2-7] [Degeneration TGLS = 3-7]	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
* Urinary Bladder Note: [SARCOMA] TGLs = 8		Edema Sarcoma	Moderate Metastatic (Uncertain Primary Site)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 575

TRT#: 5

SEX: Male

DAY ON TEST: 619

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043062

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 576

TRT#: 5

SEX: Male

DAY ON TEST: 495

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Preputial Gland
- * Stomach - Forestomach
- * Thyroid Gland

- * Adrenal Gland - Medulla
- * Heart
- * Intestine Small - Duodenum
- * Mammary Gland
- * Prostate
- * Stomach - Glandular
- * Trachea

- * Bone
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Nose
- * Salivary Glands
- * Testes

- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Parathyroid Gland
- * Skin
- * Thymus

OBSERVATIONS

- * Bone Marrow
- * Brain

Leukemia Mononuclear
 Hemorrhage
 Leukemia Mononuclear

Moderate

Note: HEMORRHAGE TGLs = 13-1,14-1

- * Kidney
- * Liver

Centrilobular
 Biliar Tract
 Bile Duct

Nephropathy
 Atrophy
 Fibrosis
 Focal Cellular Change
 Hyperplasia
 Hyperplasia
 Leukemia Mononuclear

Minimal
 Mild
 Mild
 Minimal
 Mild
 Multifocal, Mild

Note: LEUKEMIA MONUC TGLs = 9-6

- * Lung

Hemorrhage
 Leukemia Mononuclear

Mild

Note: HEMORRHAGE TGLs = 11-2,11-2-1

- * Lymph Node

Mandibular
 Mediastinal
 Mesenteric
 Pancreatic

Leukemia Mononuclear
 Leukemia Mononuclear
 Leukemia Mononuclear
 Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 12-3

Note: LEUKEMIA MONUC TGLs = 7-22

Note: LEUKEMIA MONUC TGLs = 10-5-1

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 576	TRT#: 5	SEX: Male	DAY ON TEST: 495
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043063

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
Note: NECROSIS	TGLs = 2-21	Necrosis	Moderate
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Hyperplasia	Moderate
* Seminal Vesicle		Dilatation	Mild
Note: DILATATION	TGLs = 3-7		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6		
* Urinary Bladder		Hemorrhage	Marked
Note: HEMORRHAGE	TGLs = 4-8		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 577

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Stomach - Forestomach	* Stomach - Glandular
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OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 2-21]			
* Lymph Node	Mediastinal	Angiectasis	Mild
	Mesenteric	Angiectasis	Mild
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7,1-7-1]			
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 578

TRT#: 5

SEX: Male

DAY ON TEST: 622

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 5-1		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 1-21		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 4-1		
Note: ADENOMA	TGLs = 4-1		
* Prostate		Inflammation	Suppurative, Moderate
* Seminal Vesicle		Dilatation	Mild
Note: DILATATION	TGLs = 2-7		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 578

TRT#: 5

SEX: Male

DAY ON TEST: 622

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043065

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-6

* Testes

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 579

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043066

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
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-10		
Note: LEUKEMIA MONUC	TGLs = 7-10		
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-6-1,9-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-3		
Note: LEUKEMIA MONUC	TGLs = 1-8		
Note: LEUKEMIA MONUC	TGLs = 4-21		
* Nose		Fungus	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 579

TRT#: 5

SEX: Male

DAY ON TEST: 632

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043066

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Inflammation	Suppurative, Moderate
		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Minimal
Note: HYPERPLASIA	TGLs = 11-1		
Note: ANGIECTASIS	TGLs = 11-1		
* Spleen		Histiocytic Sarcoma	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
Note: HISTIO SARC	TGLs = 6-22		
* Testes		Bilateral, Interstit Cell	Adenoma
Note: ADENOMA	TGLs = 3-7		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		C Cell	Adenoma
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 580

TRT#: 5

SEX: Male

DAY ON TEST: 654

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* 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 - Mesenteric	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 5-1		
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 2-5		
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
		Mixed Cell Focus	Moderate
Note: [MIXED CL FOCUS]	TGLs = 21		
* Lung	Alveolar Epith	Hyperplasia	Minimal
Note: HYPERPLASIA	TGLs = 4-2		
* Lymph Node	Mandibular	Hyperplasia	Mild
* Mammary Gland		Dilatation	Moderate
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 6-1		
Note: ADENOMA	TGLs = 6-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 580	TRT#: 5	SEX: Male	DAY ON TEST: 654
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043067

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

Note: [ADENOMA] TGLs = 7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 581

TRT#: 6

SEX: Male

DAY ON TEST: 95

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone
* Esophagus
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

OBSERVATIONS

* Heart
* Kidney

Inflammation
Mineralization

Chronic, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 582

TRT#: 6

SEX: Male

DAY ON TEST: 95

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* 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

OBSERVATIONS

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 583

TRT#: 6

SEX: Male

DAY ON TEST: 93

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney
* Liver	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* 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		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 584

TRT#: 6

SEX: Male

DAY ON TEST: 95

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mandibular
- * Parathyroid Gland
- * Salivary Glands
- * Stomach - Forestomach
- * Thyroid Gland

- * Adrenal Gland - Medulla
- * Epididymis
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Lymph Node - Mesenteric
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach - Glandular
- * Trachea

- * Bone
- * Esophagus
- * Intestine Small - Duodenum
- * Liver
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lung
- * Pancreas
- * Prostate
- * Spleen
- * Thymus

MISSING

- * Mammary Gland

OBSERVATIONS

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 585

TRT#: 6

SEX: Male

DAY ON TEST: 94

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* 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

OBSERVATIONS

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 586

TRT#: 5

SEX: Male

DAY ON TEST: 457

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-1]			
* Prostate		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 587

TRT#: 5

SEX: Male

DAY ON TEST: 459

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Mammary Gland
- * Preputial Gland
- * Skin
- * Thymus

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Prostate
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Pancreas
- * Salivary Glands
- * Stomach - Forestomach
- * Trachea

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Seminal Vesicle
- * Stomach - Glandular
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Gland
- * Kidney
- * Liver

- * Lymph Node
- * Pituitary Gland
- * Testes

- Medulla

- Biliar Tract
- Bile Duct

- Mandibular
- Pars Distalis
- Interstit Cell

- Pheochromocytoma Benign
- Nephropathy
- Fatty Change
- Fibrosis
- Hyperplasia
- Inflammation
- Hyperplasia
- Hyperplasia
- Adenoma

- Mild
- Minimal
- Mild
- Mild
- Focal, Mild
- Mild
- Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 588

TRT#: 5

SEX: Male

DAY ON TEST: 458

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mandibular
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

Blood Vessel Note: INFLAMMATION TGLs = 2-21	Mesent Artery	Inflammation	Chronic, Moderate
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Inflammation	Mild Mild Focal, Mild
* Lung		Hyperplasia Inflammation	Macrophage, Minimal Granulomatous, Minimal
* Lymph Node Note: HYPERPLASIA TGLs = 3-22	Mesenteric	Hyperplasia	Lymphoid, Mild
Mesentery		Inflammation	Chronic, Mild
* Nose		Foreign Body Inflammation	Minimal Suppurative, Mild
* Pituitary Gland [Adenoma TGLS = 4-1]	Pars Distalis	Adenoma	
* Testes Note: ADENOMA TGLs = 1-7	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 589

TRT#: 5

SEX: Male

DAY ON TEST: 457

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
[Hepatodiaphragmatic Nodule TGLS = 1-21]			
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	Follicle	Hyperplasia	Macrophage, Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 590

TRT#: 5

SEX: Male

DAY ON TEST: 459

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 1-21		
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 591

TRT#: 9

SEX: Male

DAY ON TEST: 549

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 6-5,7-23		
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Moderate
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
		Thrombosis	Mild
Note: LEUKEMIA MONUC	TGLs = 8-6-1		
Note: ATROPHY	TGLs = 8-6-1		
Note: HYPERPLASIA	TGLs = 8-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-22		
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 3-21		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 591	TRT#: 9	SEX: Male	DAY ON TEST: 549
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043176

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Testes	Interstit Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 592

TRT#: 9

SEX: Male

DAY ON TEST: 719

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lymph Node - Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach - Forestomach |
| * Stomach - Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|----------------------------------------------------|----------------|-------------------------|-----------------------|
| * Adrenal Gland
Note: PHEOCHROM BGN TGLs = 4-22 | Medulla | Pheochromocytoma Benign | |
| * Islets, Pancreatic
Note: ADENOMA TGLs = 3-21 | | Adenoma | |
| * Kidney
Note: NEPHROPATHY TGLs = 5-5,6-5 | | Nephropathy | Marked |
| * Liver | Biliar Tract | Degeneration | Cystic, Minimal |
| | | Fibrosis | Minimal |
| | Bile Duct | Focal Cellular Change | Minimal |
| | | Hyperplasia | Minimal |
| | | Inflammation | Focal, Mild |
| [Hyperplasia TGLs = 7-23] | | | |
| * Lung
Note: HYPERPLASIA TGLs = 8-2-1 | Alveolar Epith | Hyperplasia | Mild |
| * Lymph Node | Mandibular | Hyperplasia | Mild |
| * Pancreas | | Atrophy | Focal, Mild |
| * Prostate | | Inflammation | Suppurative, Moderate |
| * Testes | Interstit Cell | Adenoma | |
| | Interstit Cell | Hyperplasia | Mild |
| Note: [ADENOMA] TGLs = 7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 593

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5		
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
[Hyperplasia TGLS = 6-6]			
* Mammary Gland		Dilatation	Minimal
		Hyperplasia	Mild
Note: DILATATION	TGLs = 2-21		
Note: HYPERPLASIA	TGLs = 2-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 7-1		
Note: ANGIECTASIS	TGLs = 7-1		
* Preputial Gland		Hyperplasia	Moderate
		Inflammation	Suppurative, Moderate
Note: HYPERPLASIA	TGLs = 1-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 593	TRT#: 9	SEX: Male	DAY ON TEST: 730
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043178

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 1-8			
* Prostate		Inflammation	Suppurative, Mild
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: DEGEN TGLs = 4-7 [Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 594

TRT#: 9

SEX: Male

DAY ON TEST: 586

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lung	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
Note: ANOM HEPAT LOB TGLs = 6-24,7-25			
* Lymph Node	Bronchial	Hyperplasia	Mild
	Inguinal	Hyperplasia	Moderate
	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Mild
	Mesenteric	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-21,8-8			
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 3-23			
* Nose		Inflammation	Suppurative, Moderate
* Preputial Gland		Carcinoma	
		Inflammation	Suppurative, Marked
Note: INFLAMMATION TGLs = 2-22			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 594	TRT#: 9	SEX: Male	DAY ON TEST: 586
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043179

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA	TGLs = 2-22		
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL	TGLs = 4-6		
* Testes		Hyperplasia	Mild
Note: [HYPERPLASIA]	TGLs = 7		
* Thyroid Gland		Adenoma	
	Interstit Cell	Degeneration	Cystic, Minimal
	C Cell		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 595

TRT#: 9

SEX: Male

DAY ON TEST: 447

DOSE: 0.0100% CHLORAMI

DISP: Natural Death

HISTO: A86037952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Angiectasis	Moderate
	Mandibular	Hyperplasia	Moderate
Note: ANGIECTASIS TGLs = 1-8			
Note: HYPERPLASIA TGLs = 1-8			
* Nose		Inflammation	Suppurative, Moderate
Pharynx	Palate	Squamous Cell Papilloma	
Note: [PAPILLOMA SQUA] TGLs = 9			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
* Prostate		Inflammation	Suppurative, Moderate
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 596

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Leukemia Mononuclear	
Mesentery		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 4-1		
Note: ANGIECTASIS	TGLs = 4-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
		Mesothelioma Malignant	
Note: DEGEN	TGLs = 2-7		
Note: ADENOMA	TGLs = 1-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 597 **TRT#:** 9 **SEX:** Male **DAY ON TEST:** 730
DOSE: 0.0100% CHLORAMI **DISP:** Terminal Sacrifice **HISTO:** A78043181

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fatty Change	Minimal
		Fibrosis	Mild
	Bile Duct	Focal Cellular Change	Minimal
		Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Moderate
* Pituitary Gland		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Minimal
Note: [HYPERPLASIA] TGLs = 1			
* Preputial Gland		Adenoma	
Note: ADENOMA TGLs = 1-8			
* Spleen		Leukemia Mononuclear	
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 598

TRT#: 9

SEX: Male

DAY ON TEST: 702

DOSE: 0.0100% CHLORAMI

DISP: Natural Death

HISTO: A87043182

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver		Congestion	Mild
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 8-6]			
* Lymph Node	Mandibular	Hyperplasia	Mild
* Mammary Gland		Dilatation	Moderate
Note: DILATATION TGLs = 9-8			
* Preputial Gland		Adenoma	
		Inflammation	Suppurative, Marked
Note: ADENOMA TGLs = 2-8			
Note: INFLAMMATION TGLs = 2-8			
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
* Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 7-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 598	TRT#: 9	SEX: Male	DAY ON TEST: 702
	DOSE: 0.0100% CHLORAMI	DISP: Natural Death	HISTO: A87043182

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach Note: PAPANOMA SQUA TGLs = 10-22	Forestomach	Squamous Cell Papilloma	
* Testes Note: [ADENOMA] TGLs = 7 [Degeneration TGLS = 4-7]	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 599

TRT#: 9

SEX: Male

DAY ON TEST: 701

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043183

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
* Mammary Gland	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Mild
* Bone Marrow		Leukemia Mononuclear Myelofibrosis	Moderate
* Kidney		Leukemia Mononuclear Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 10-5-1			
* Liver	Centrilobular Biliar Tract Bile Duct	Atrophy Fatty Change Fibrosis Hyperplasia Hyperplasia Leukemia Mononuclear	Moderate Mild Mild Mild Multifocal, Moderate
[Fatty Change TGLs = 11-6]			
[Fibrosis TGLs = 11-6]			
[Hyperplasia TGLs = 11-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Inguinal Mandibular Mediastinal Mesenteric Pancreatic Renal	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 599

TRT#: 9

SEX: Male

DAY ON TEST: 701

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043183

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 14-25

Note: LEUKEMIA MONUC TGLs = 8-7

Note: LEUKEMIA MONUC TGLs = 1-8

Note: LEUKEMIA MONUC TGLs = 15-2

Mesentery

* Nose

* Pancreas

* Pituitary Gland

* Preputial Gland

Skeletal Muscle

* Spleen

Note: LEUKEMIA MONUC TGLs = 9-6-1

* Testes

[Adenoma TGLS = 4-7]

[Degeneration TGLS = 5-7]

* Thyroid Gland

Pars Distalis

Interstit Cell

Germinal Epith

Follicular Cel

Mesothelioma Malignant

Fungus

Inflammation

Atrophy

Hyperplasia

Inflammation

Mesothelioma Malignant

Leukemia Mononuclear

Adenoma

Degeneration

Mesothelioma Malignant

Hyperplasia

Mild

Suppurative, Moderate

Focal, Mild

Focal, Minimal

Suppurative, Minimal

Moderate

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 600

TRT#: 9

SEX: Male

DAY ON TEST: 519

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A86038839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 3-1 [Adenoma TGLS = 3-1]			
* Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-22			
* Skin	Fat, Subcut Tiss	Necrosis	Moderate
Note: NECROSIS TGLs = 1-21			
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 601

TRT#: 9

SEX: Male

DAY ON TEST: 696

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043184

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lung	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
Blood Vessel	Mesent Artery	Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 3-7			
* Bone Marrow		Myelofibrosis	Mild
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5,5-21			
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Hyperplasia	Moderate
* Parathyroid Gland		Hyperplasia	Mild
* Prostate		Inflammation	Suppurative, Minimal
Note: INFLAMMATION TGLs = 1-7			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 602

TRT#: 9

SEX: Male

DAY ON TEST: 583

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043185

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Kidney	Renal Tubule	Hyperplasia Nephropathy	Mild Marked
Note: NEPHROPATHY TGLs = 4-5-1			
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Hyperplasia	Mild
* Mammary Gland		Dilatation	Moderate
Note: DILATATION TGLs = 2-8			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Mild
Note: CYST TGLs = 5-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
* Stomach	Forestomach	Hyperplasia	Squamous, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Moderate
Note: [HYPERPLASIA] TGLs = 4,22			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 602	TRT#: 9	SEX: Male	DAY ON TEST: 583
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043185

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Artery	Inflammation	Chronic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 603

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043186

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 7-21			
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
* Liver		Eosinophilic Focus	Moderate
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Mild
* Lung		Congestion	Mild
Note: CONGESTION TGLs = 6-2			
* Lymph Node	Mandibular	Hyperplasia	Mild
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland		Cyst	Minimal
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: ADENOMA TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 603

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043186

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 604

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043187

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Cyst	Moderate
		Nephropathy	Marked
Note: CYST TGLs = 3-21			
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
		Hemorrhage	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Infiltration Cellular	Mixed Cell, Moderate
		Inflammation	Focal, Mild
		Necrosis	Focal, Minimal
[Fibrosis TGLS = 5-22]			
[Hyperplasia TGLS = 5-22]			
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Degeneration TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 605

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043188

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 6-5		
* Liver		Angiectasis	Minimal
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 8-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 605	TRT#: 9	SEX: Male	DAY ON TEST: 730
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043188

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS TGLs = 8-1
* Spleen

Fibrosis Moderate
Leukemia Mononuclear

Note: FIBROSIS TGLs = 5-22
Note: LEUKEMIA MONUC TGLs = 4-6

* Testes Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 606

TRT#: 9

SEX: Male

DAY ON TEST: 666

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043189

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Myelofibrosis	Mild
* Heart		Mineralization	Minimal
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-5,5-5			
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Mixed Cell, Moderate
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 6-6]			
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Fibrosis	Mild
		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 3-6			
* Stomach	Forestomach	Mineralization	Minimal
	Glandular	Mineralization	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 1-7]			
[Degeneration TGLS = 2-7]			
* Thyroid Gland	Follicle	Cyst	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 606

TRT#: 9

SEX: Male

DAY ON TEST: 666

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043189

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 7-3,8-3

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 607

TRT#: 9

SEX: Male

DAY ON TEST: 719

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043190

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Bile Duct	Dilatation	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: ATROPHY	TGLs = 3-6-1		
Note: HYPERPLASIA	TGLs = 3-6-1		
Note: LEUKEMIA MONUC	TGLs = 3-6-1		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-2		
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 5-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 607

TRT#: 9

SEX: Male

DAY ON TEST: 719

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043190

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-6

* Testes

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 608

TRT#: 9

SEX: Male

DAY ON TEST: 639

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043191

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 5-1		
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Marked
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
		Dilatation	Moderate
* Mammary Gland			
Note: DILATATION	TGLs = 1-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 4-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Ulcer	Mild
* Testes	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Mild
Note: DEGEN	TGLs = 2-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 609

TRT#: 9

SEX: Male

DAY ON TEST: 710

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043192

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Minimal
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
		Thrombosis	Mild
		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Leukemia Mononuclear	
		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 8-6
 [Hyperplasia TGLS = 8-6]
 [Leukemia Mononuclear TGLS = 8-6]

* Lung
 Note: LEUKEMIA MONUC TGLs = 9-2

* Lymph Node

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 609

TRT#: 9

SEX: Male

DAY ON TEST: 710

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043192

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-7			
Note: LEUKEMIA MONUC TGLs = 10-3			
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-21			
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
		Necrosis	Focal, Moderate
Note: LEUKEMIA MONUC TGLs = 5-6-1			
Note: NECROSIS TGLs = 7-22			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 610

TRT#: 9

SEX: Male

DAY ON TEST: 669

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043193

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla Cortex	Hematopoietic Cell Proliferation Pheochromocytoma Benign Vacuolization Cytoplasmic Leukemia Mononuclear	Mild Moderate
* Bone Marrow		Compression	Mild
* Brain		Adenoma	
* Islets, Pancreatic Note: ADENOMA TGLs = 5-21			
* Kidney	Renal Tubule	Hyperplasia Nephropathy Angiectasis	Minimal Mild Mild
* Liver	Centrilobular	Atrophy Degeneration Fatty Change	Mild Cystic, Minimal Mild
	Biliar Tract Bile Duct	Fibrosis Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Mild Multifocal, Mild
Note: LEUKEMIA MONUC TGLs = 3-6 [Hyperplasia TGLS = 3-6] [Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular Mediastinal	Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 610	TRT#: 9	SEX: Male	DAY ON TEST: 669
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043193

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
Note: DILATATION	TGLs = 1-8		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 611

TRT#: 9

SEX: Male

DAY ON TEST: 698

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043194

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6-5-1			
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
Note: ATROPHY TGLs = 7-6			
Note: LEUKEMIA MONUC TGLs = 7-6,8-6			
[Leukemia Mononuclear TGLs = 7-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-3			
Note: LEUKEMIA MONUC TGLs = 4-22			
Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Atrophy	Mild
Note: ATROPHY TGLs = 10-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 611	TRT#: 9 DOSE: 0.0100% CHLORAMI	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 698 HISTO: A87043194
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Minimal
* Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 1-21		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6-1		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-7		
* Thyroid Gland		Degeneration	Cystic, Minimal
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 612

TRT#: 9

SEX: Male

DAY ON TEST: 566

DOSE: 0.0100% CHLORAMI

DISP: Natural Death

HISTO: A87043195

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Moderate
* Lymph Node	Mandibular	Hyperplasia	Mild
Mesentery		Inflammation	Chronic, Minimal
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Histiocytic Sarcoma	
Note: HISTIO SARC	TGLs = 1-6-1		
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 613

TRT#: 9

SEX: Male

DAY ON TEST: 533

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043196

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	* Lymph Node - Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
Note: ADENOMA	TGLs = 6-22		
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6-1		
[Fibrosis TGLS = 5-6-1]			
[Hyperplasia TGLS = 5-6-1]			
[Leukemia Mononuclear TGLS = 5-6-1]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-21		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 613

TRT#: 9

SEX: Male

DAY ON TEST: 533

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043196

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Cyst	Minimal
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 614

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043197

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	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign Leukemia Mononuclear Adenoma	Mild
* Bone Marrow			
* Islets, Pancreatic			
Note: ADENOMA	TGLs = 5-21		
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-5		
* Liver	Biliar Tract	Degeneration Fibrosis Focal Cellular Change Hyperplasia Leukemia Mononuclear	Cystic, Minimal Minimal Minimal Mild
	Bile Duct	Leukemia Mononuclear	
* Lung	Mediastinal	Leukemia Mononuclear	
* Lymph Node		Inflammation	Suppurative, Minimal
* Nose		Adenoma	
* Pancreas	Acinar Cell		
Note: ADENOMA	TGLs = 6-22		
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 614

TRT#: 9

SEX: Male

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043197

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DEGEN TGLs = 2-7
Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 615

TRT#: 9

SEX: Male

DAY ON TEST: 618

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043198

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* 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 - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Epididymis		Inflammation	Chronic, Mild
* Esophagus		Carcinoma	Metastatic (Thyroid Gland)
* Kidney		Nephropathy	Mild
Larynx		Carcinoma	Metastatic (Thyroid Gland)
* Liver	Biliar Tract	Degeneration	Cystic, Minimal
		Fibrosis	Minimal
	Bile Duct	Focal Cellular Change	Mild
		Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lung		Carcinoma	Metastatic (Thyroid Gland)
Note: CARCINOMA	TGLs = 6-2		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Necrosis	Focal, Minimal
Note: HEMA CELL PROL	TGLs = 4-6		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 2-7,3-7]			
[Degeneration TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 615	TRT#: 9	SEX: Male	DAY ON TEST: 618
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043198

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Carcinoma	
* Trachea		Carcinoma	Metastatic (Thyroid Gland)
Note: CARCINOMA	TGLs = 7-3-1		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 625

TRT#: 9

SEX: Male

DAY ON TEST: 429

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A86037957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Lymph Node - Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large	Cecum	Leukemia Mononuclear	
* Intestine Small	Ileum	Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Mild
Note: PIGMENT TGLs = 5-5			
* Liver		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: FATTY CHANGE TGLs = 6-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Suppurative, Mild
Note: INFLAMMATION TGLs = 2-8			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
* Testes	Germinal Epith	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 625

TRT#: 9

SEX: Male

DAY ON TEST: 429

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A86037957

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DEGEN TGLs = 4-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 626

TRT#: 13

SEX: Male

DAY ON TEST: 605

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 10-1		
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
* Liver		Angiectasis	Minimal
	Centrilobular	Atrophy	Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: [HYPERPLASIA]	TGLs = 6.1		
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Angiectasis	Mild
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 626

TRT#: 13

SEX: Male

DAY ON TEST: 605

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043271

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-21
Note: ANGIECTASIS TGLs = 8-23
[Leukemia Mononuclear TGLS = 6-22]

* Mammary Gland		Dilatation	Moderate
Note: DILATATION	TGLs = 1-8-1		
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 9-1		
Note: ANGIECTASIS	TGLs = 9-1		
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 627

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Marked
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 9-6,6-22			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-3			
Note: LEUKEMIA MONUC TGLs = 2-8			
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Moderate
Note: DILATATION TGLs = 10-8-1			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 627

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043272

ORGAN AND ACCOUNTABLE SITE STATUS

Germinal Epith
Interstit Cell

Degeneration
Hyperplasia

Moderate
Mild

Note: DEGEN TGLs = 3-7-1

Note: [ADENOMA] TGLs = 7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 628

TRT#: 13

SEX: Male

DAY ON TEST: 701

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: [PHEOCHROM BGN] TGLs = 10			
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 12-23			
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 7-5			
* Liver		Degeneration	Cystic, Minimal
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION TGLs = 1-8-1			
Mesentery		Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 11-4-1			
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 10-1			
* Preputial Gland		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 628	TRT#: 13	SEX: Male	DAY ON TEST: 701
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043273

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate Note: INFLAMMATION TGLs = 5-22		Inflammation	Suppurative, Marked
* Spleen Note: FIBROSIS TGLs = 6-21		Fibrosis	Mild
* Stomach Note: PERFORATION TGLs = 8-4 Note: ULCER TGLs = 11-4-1,8-4	Forestomach, Mucosa Forestomach Glandular Forestomach Forestomach	Hyperplasia Inflammation Inflammation Perforation Ulcer	Papillary, Moderate Chronic, Moderate Chronic, Mild Moderate Marked
* Testes [Adenoma TGLS = 3-7,2-7-1]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 629

TRT#: 13

SEX: Male

DAY ON TEST: 715

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lung	* Lymph Node - Mesenteric	* Nose	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 4-1		
* Islets, Pancreatic		Adenoma	
Note: ADENOMA	TGLs = 10-21		
* Kidney		Cyst	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 2-5		
Note: CYST	TGLs = 5-5-1		
* Liver		Degeneration	Cystic, Minimal
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA	TGLs = 7-8-1		
* Mammary Gland		Dilatation	Minimal
Note: DILATATION	TGLs = 9-8		
* Pancreas	Duct	Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 3-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 629

TRT#: 13

SEX: Male

DAY ON TEST: 715

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043274

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS TGLs = 3-1

* Prostate		Inflammation	Suppurative, Moderate
* Stomach	Glandular	Erosion	Minimal
	Glandular	Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 8-7-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 630 **TRT#:** 13 **SEX:** Male **DAY ON TEST:** 579
DOSE: 0.00500%CHLORAMI **DISP:** Moribund Sacrifice **HISTO:** A87043275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 5-1			
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 2-5			
* Liver	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 3-21]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 6-8			
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 4-1		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 4-1			
* Preputial Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Moderate
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 630

TRT#: 13

SEX: Male

DAY ON TEST: 579

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043275

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 631

TRT#: 13

SEX: Male

DAY ON TEST: 701

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Cyst Nephropathy	Minimal Marked
Note: NEPHROPATHY TGLs = 5-5			
Note: CYST TGLs = 6-5-1			
* Liver	Biliar Tract Bile Duct	Fatty Change Fibrosis Hyperplasia Inflammation Hyperplasia	Minimal Minimal Minimal Focal, Minimal Mild
* Parathyroid Gland			
Note: HYPERPLASIA TGLs = 7-3			
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 4-22			
* Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-21			
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: DEGEN TGLs = 3-7			
[Adenoma TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 631

TRT#: 13

SEX: Male

DAY ON TEST: 701

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043276

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 632

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
* Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Inflammation	Focal, Mild
		Mixed Cell Focus	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
Mesentery		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Hyperplasia	Focal, Minimal
		Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: DEGEN	TGLs = 1-7		
	[Adenoma TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 633

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Mammary Gland
- * Seminal Vesicle
- * Stomach - Glandular
- * Urinary Bladder

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Skin
- * Thymus

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Salivary Glands
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Adrenal Gland
- * Kidney

Bilateral, Medulla

Pheochromocytoma Benign
Cyst
Nephropathy

Mild
Marked

Note: NEPHROPATHY TGLs = 4-5
Note: CYST TGLs = 3-22

- * Liver

Degeneration
Fatty Change
Fibrosis
Hepatodiaphragmatic Nodule
Hyperplasia
Inflammation

Cystic, Minimal
Minimal
Mild
Mild
Focal, Mild

Biliar Tract

Bile Duct

Note: ANOM HEPAT LOB TGLs = 5-23

- * Lymph Node
- * Pancreas
- * Pituitary Gland

Mandibular

Hyperplasia
Atrophy
Cyst

Mild
Focal, Minimal
Minimal

Pars Distalis

Hyperplasia
Carcinoma

Focal, Mild

- * Preputial Gland

Note: CARCINOMA TGLs = 1-21

- * Prostate

Inflammation

Suppurative, Minimal

- * Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 633

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043278

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 634

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lymph Node - Mandibular | * Lymph Node - Mesenteric | * Nose |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|----------------------|--------------------|--------------------------------------------|--------------------------------------|
| * Adrenal Gland | Bilateral, Medulla | Pheochromocytoma Benign
Adenoma | |
| * Islets, Pancreatic | | | |
| Note: ADENOMA | TGLs = 9-21 | | |
| * Kidney | | Nephropathy | Marked |
| Note: NEPHROPATHY | TGLs = 5-5 | | |
| * Liver | | Congestion
Degeneration
Fatty Change | Mild
Cystic, Minimal
Mild |
| | Bile Duct | Hyperplasia
Inflammation
Congestion | Minimal
Focal, Minimal
Minimal |
| * Lung | | | |
| Note: CONGESTION | TGLs = 7-2 | | |
| * Mammary Gland | | Dilatation
Fibroadenoma | Mild |
| Note: FIBROADENOMA | TGLs = 1-8-1 | | |
| Note: DILATATION | TGLs = 1-8-1 | | |
| * Pancreas | | Atrophy | Focal, Mild |
| Note: ATROPHY | TGLs = 9-21 | | |
| * Pituitary Gland | Pars Distalis | Adenoma
Angiectasis | Moderate |
| Note: ADENOMA | TGLs = 8-1 | | |
| Note: ANGIECTASIS | TGLs = 8-1 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 634	TRT#: 13	SEX: Male	DAY ON TEST: 731
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043279

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Adenoma	
		Inflammation	Suppurative, Moderate
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Fibrosis	Moderate
Note: FIBROSIS	TGLs = 4-6-1		
* Testes		Adenoma	
		Degeneration	Moderate
		Hyperplasia	Mild
Note: DEGEN	TGLs = 3-7		
Note: [ADENOMA] TGLs = 7		
* Thyroid Gland		Hyperplasia	Minimal
	C Cell		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 635

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* 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	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign Compression	Minimal Mild
* Brain Note: COMPRESSION TGLs = 6-1-1			
* Kidney Note: NEPHROPATHY TGLs = 2-5		Nephropathy	Marked
* Liver	Biliar Tract Bile Duct	Fatty Change Fibrosis Hepatodiaphragmatic Nodule Hyperplasia Hyperplasia Inflammation	Mild Mild Moderate Mild Multifocal, Mild Focal, Mild
Note: HYPERPLASIA TGLs = 3-22 Note: ANOM HEPAT LOB TGLs = 3-22			
* Lymph Node Note: ANGIECTASIS TGLs = 4-23	Renal	Angiectasis	Mild
* Mammary Gland Note: DILATATION TGLs = 1-21		Dilatation	Mild
* Pituitary Gland Note: ADENOMA TGLs = 5-1	Pars Distalis	Adenoma Angiectasis	Moderate
* Preputial Gland		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 635	TRT#: 13	SEX: Male	DAY ON TEST: 731
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043280

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 636

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Preputial Gland
- * Stomach - Forestomach
- * Trachea

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Seminal Vesicle
- * Thymus

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Parathyroid Gland
- * Skin
- * Thyroid Gland

OBSERVATIONS

* Adrenal Gland
Note: PHEOCHROM BGN TGLs = 3-10

Bilateral, Medulla

Pheochromocytoma Benign

* Kidney
Note: NEPHROPATHY TGLs = 4-5

Nephropathy

Marked

* Liver
Biliar Tract

Fibrosis
Focal Cellular Change
Hyperplasia
Infiltration Cellular
Inflammation

Minimal
Minimal
Mild
Mixed Cell, Minimal
Focal, Mild

* Pancreas
* Pituitary Gland
* Prostate
* Spleen
* Testes
Pars Distalis

Atrophy
Hyperplasia
Inflammation
Fibrosis
Adenoma
Degeneration

Minimal
Focal, Minimal
Suppurative, Mild
Mild
Moderate

[Adenoma TGLS = 1-7]
[Degeneration TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 637

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign Nephropathy	Mild
* Kidney Note: NEPHROPATHY TGLs = 3-5			Moderate
* Liver	Biliar Tract	Fibrosis Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation Hyperplasia	Moderate Mild
Note: DILATATION TGLs = 1-21			
* Pancreas	Acinar Cell	Adenoma	Multiple
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1			
* Prostate		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 2-7			
* Spleen		Leukemia Mononuclear	
* Stomach	Forestomach	Hyperplasia	Squamous, Moderate
* Testes	Interstit Cell Artery	Adenoma Inflammation	Chronic, Moderate
Note: INFLAMMATION TGLs = 4-7			
Note: ADENOMA TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 637

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043282

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 638

TRT#: 13

SEX: Male

DAY ON TEST: 654

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
* Liver		Degeneration	Cystic, Mild
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Thrombosis	Minimal
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-21		
* Pituitary Gland		Cyst	Mild
* Prostate		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 638	TRT#: 13	SEX: Male	DAY ON TEST: 654
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043283

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 3-6		Leukemia Mononuclear
* Testes Note: ADENOMA TGLs = 1-7	Bilateral, Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 639

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	Moderate
Note: [MIXED CL FOCUS] TGLs = 21			
Note: LEUKEMIA MONUC TGLs = 5-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pancreas	Acinar Cell	Adenoma	
Note: ADENOMA TGLs = 7-22			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 639

TRT#: 13

SEX: Male

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043284

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 640

TRT#: 13

SEX: Male

DAY ON TEST: 676

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043285

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
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Mild
* Bone Marrow		Leukemia Mononuclear	
Eye	Retina	Cataract Degeneration	Moderate Marked
Note: DEGEN TGLs = 1-21			
Note: CATARACT TGLs = 1-21			
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy Fatty Change	Mild Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia Hyperplasia Leukemia Mononuclear	Moderate Multifocal, Mild
Note: LEUKEMIA MONUC TGLs = 7-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
* Mammary Gland		Dilatation	Mild
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-22			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 640	TRT#: 13	SEX: Male	DAY ON TEST: 676
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043285

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: FIBROSIS	TGLs = 6-23		
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 641

TRT#: 13

SEX: Male

DAY ON TEST: 618

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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 - Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node - Mesenteric	* Mammary Gland
---------------------------	-----------------

OBSERVATIONS

* Adrenal Gland	Medulla Cortex	Pheochromocytoma Benign Vacuolization Cytoplasmic	Moderate
Note: VACUOLIZ CYTO TGLs = 4-10			
Note: PHEOCHROM BGN TGLs = 4-10			
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 10-1			
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 5-5-1			
* Liver	Biliar Tract Bile Duct	Congestion Fatty Change Fibrosis Hyperplasia Inflammation	Mild Mild Minimal Minimal Focal, Minimal
Note: FATTY CHANGE TGLs = 6-6			
[Hyperplasia TGLs = 6-6]			
* Lung		Alveolar/Bronchiolar Adenoma Congestion	Mild
Note: ALV BRON ADEN TGLs = 11-2			
Note: CONGESTION TGLs = 8-2			
* Lymph Node	Mediastinal	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 641	TRT#: 13	SEX: Male	DAY ON TEST: 618
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043286

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 7-3			
Mesentery		Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 2-21			
* Pituitary Gland		Pars Distalis	Adenoma Angiectasis	Moderate
Note: [ADENOMA]	TGLs = 1			
* Prostate			Inflammation	Suppurative, Minimal
* Salivary Glands			Infiltration Cellular	Lipocyte, Moderate
* Testes		Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
[Adenoma TGLS = 1-7]				
* Thyroid Gland		C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 642

TRT#: 13

SEX: Male

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
Note: PHEOCHROM BGN TGLs = 6-22			
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 8-23			
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 7-5-1			
* Liver	Biliar Tract	Fibrosis Focal Cellular Change	Mild Mild
	Bile Duct	Hyperplasia Hyperplasia Inflammation	Mild Multifocal, Moderate Focal, Mild
Note: FOCAL CELL CH TGLs = 12-25 [Fibrosis TGLS = 11-24] [Hyperplasia TGLS = 10-6]			
* Lymph Node	Mediastinal	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 13-3			
* Mammary Gland		Dilatation	Minimal
* Pancreas	Acinar Cell Acinar Cell	Adenoma Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 642	TRT#: 13	SEX: Male	DAY ON TEST: 732
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043287

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [ADENOMA] TGLs = 21 * Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
Note: ANGIECTASIS TGLs = 14-1 Note: ADENOMA TGLs = 14-1 * Prostate		Inflammation	Suppurative, Mild
Note: INFLAMMATION TGLs = 4-7 * Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
[Adenoma TGLS = 2-7] [Degeneration TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 643

TRT#: 13

SEX: Male

DAY ON TEST: 654

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* 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 - Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Brain		Compression	Mild
Note: COMPRESSION TGLs = 4-1			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 3-1			
Note: ANGIECTASIS TGLs = 3-1			
* Prostate		Inflammation	Suppurative, Mild
* Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 643

TRT#: 13

SEX: Male

DAY ON TEST: 654

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043288

ORGAN AND ACCOUNTABLE SITE STATUS

Hyperplasia

Mild

Note: [ADENOMA] TGLs = 7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 644

TRT#: 13

SEX: Male

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Mammary Gland	* Nose
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Focal Cellular Change	Mild
		Hyperplasia	Moderate
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pancreas	Acinar Cell	Adenoma	
		Atrophy	Focal, Minimal
Note: ADENOMA TGLs = 9-24			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Skin	Subcut Tiss	Fibroma	
		Squamous Cell Papilloma	
Note: PAPILOMA SQUA TGLs = 1-21			
Note: FIBROMA TGLs = 2-22			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-6			
Note: FIBROSIS TGLs = 7-23			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 644	TRT#: 13	SEX: Male	DAY ON TEST: 732
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043289

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: ADENOMA	TGLs = 4-7		
Note: DEGEN	TGLs = 5-7		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:22
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 645

TRT#: 13

SEX: Male

DAY ON TEST: 676

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Small	Ileum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-24		
Note: LEUKEMIA MONUC	TGLs = 7-23		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-21		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 645	TRT#: 13	SEX: Male	DAY ON TEST: 676
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043290

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 6-22 Mesentery		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-25 * Nose		Fungus Inflammation	Mild Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6-1 * Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-7 * Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 646

TRT#: 13

SEX: Male

DAY ON TEST: 653

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043291

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
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Cyst Leukemia Mononuclear Nephropathy	Mild Moderate
Note: NEPHROPATHY TGLs = 6-5 Note: CYST TGLs = 6-5			
* Liver	Centrilobular Biliar Tract Bile Duct	Atrophy Degeneration Fibrosis Hepatocellular Adenoma Hyperplasia Leukemia Mononuclear Necrosis	Mild Cystic, Mild Mild Mild Focal, Minimal
Note: LEUKEMIA MONUC TGLs = 9-6-1 Note: HEPATOCLR ADEN TGLs = 10-23			
* Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Mild
Note: HYPERPLASIA TGLs = 11-2			
* Lymph Node	Inguinal Mandibular Mediastinal	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 646

TRT#: 13

SEX: Male

DAY ON TEST: 653

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043291

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-21		
Note: LEUKEMIA MONUC	TGLs = 8-22		
Note: LEUKEMIA MONUC	TGLs = 1-8		
Note: LEUKEMIA MONUC	TGLs = 12-3		
Note: LEUKEMIA MONUC	TGLs = 4-7		
Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Testes		Bilateral, Interstit Cell	
Note: ADENOMA	TGLs = 3-7	Adenoma	
* Thymus		Cyst	Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 647

TRT#: 13

SEX: Male

DAY ON TEST: 718

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043292

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
* Lymph Node - Mandibular	* Nose	* Pancreas	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Cortex	Necrosis	Mild
	Bilateral, Medulla	Pheochromocytoma Benign	
	Cortex	Vacuolization Cytoplasmic	Mild
Note: VACUOLIZ CYTO	TGLs = 4-10		
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5,6-5		
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Parathyroid Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 8-3		
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 7-1		
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 647	TRT#: 13	SEX: Male	DAY ON TEST: 718
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043292

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-6 Note: FIBROSIS TGLs = 3-6 * Stomach	Forestomach, Mucosa Forestomach Glandular	Hyperplasia Inflammation Mineralization	Papillary, Moderate Chronic, Moderate Moderate
Note: HYPERPLASIA TGLs = 9-4,9-4-1 * Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: ADENOMA TGLs = 2-7 Note: DEGEN TGLs = 1-7 * Thyroid Gland	C Cell	Carcinoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 648

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Minimal
Note: COMPRESSION	TGLs = 6-1		
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Moderate
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pancreas	Acinar Cell	Adenoma	
		Atrophy	Focal, Mild
Note: ADENOMA	TGLs = 8-22		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Note: ANGIECTASIS	TGLs = 7-1		
Note: ADENOMA	TGLs = 7-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 648	TRT#: 13	SEX: Male	DAY ON TEST: 730
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043293

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Adenoma	
		Inflammation	Suppurative, Moderate
Note: ADENOMA	TGLs = 1-21		
* Prostate		Inflammation	Suppurative, Mild
* Skin		Cyst Epithelial Inclusion	Mild
* Spleen		Fibrosis	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: DEGEN	TGLs = 3-7		
Note: ADENOMA	TGLs = 2-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 649

TRT#: 13

SEX: Male

DAY ON TEST: 667

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
Note: PHEOCHROM BGN TGLs = 4-22			
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Infiltration Cellular Inflammation	Minimal Minimal Mixed Cell, Minimal Focal, Minimal
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-21			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 650

TRT#: 13

SEX: Male

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Heart | * Intestine Large - Cecum | * Intestine Large - Colon |
| * Intestine Large - Rectum | * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach - Forestomach | * Stomach - Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Intestine Small - Duodenum

OBSERVATIONS

- | | | | |
|-----------------|---------------------------|-------------------------|-------------------|
| * Adrenal Gland | Bilateral, Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Cyst | Mild |
| | | Nephropathy | Moderate |
| * Liver | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| Note: ADENOMA | TGLs = 1-7 | | |
| * Thyroid Gland | | Degeneration | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 661

TRT#: 17

SEX: Male

DAY ON TEST: 600

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043092

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney Note: [NEPHROPATHY] TGLs = 4-5		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia Infiltration Cellular Inflammation	Minimal Mixed Cell, Mild Focal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Minimal
* Lymph Node Note: [ANGIECTASIS] TGLs = 5-24	Mediastinal	Angiectasis	Moderate
Mesentery Note: [NECROSIS] TGLs = 2-22	Fat	Necrosis	Moderate
* Preputial Gland [Carcinoma TGLS = 1-21]		Carcinoma Inflammation	Suppurative, Marked
* Spleen Note: [FIBROSIS] TGLs = 3-23		Fibrosis	Mild
* Testes	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 662

TRT#: 17

SEX: Male

DAY ON TEST: 687

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043093

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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Spermatocele	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 3-6-1			
Note: LEUKEMIA MONUC TGLs = 3-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-3			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 662	TRT#: 17	SEX: Male	DAY ON TEST: 687
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043093

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes Note: ADENOMA TGLs = 1-7	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland Note: CYST TGLs = 5-3	Follicle	Cyst Leukemia Mononuclear	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:22
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 663

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043094

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Brain		Compression	Mild
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: [NEPHROPATHY] TGLs = 2-5			
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 4-2-1			
Note: [ALV BRON ADEN] TGLs = 7-23			
* Mammary Gland		Dilatation	Moderate
* Pancreas	Acinar Cell	Adenoma	
Note: [ADENOMA] TGLs = 6-22			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
* Prostate		Inflammation	Suppurative, Mild
* Skin		Squamous Cell Papilloma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 663	TRT#: 17	SEX: Male	DAY ON TEST: 729
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043094

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [PAPILOMA SQUA] TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 3-6			
* Testes	Interstit Cell	Hyperplasia	Mild
Note: [HYPERPLASIA] TGLs = 7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 664

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043095

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-5		
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Angiectasis	Moderate
	Mandibular	Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 6-5-1		
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6,3-21		
* Stomach	Forestomach	Inflammation	Chronic, Mild
	Forestomach	Ulcer	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 664

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043095

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 665

TRT#: 17

SEX: Male

DAY ON TEST: 653

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043096

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone		Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Mild
		Adenoma	
* Islets, Pancreatic			
Note: ADENOMA	TGLs = 7-21		
* Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 4-5		
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 2-8		
* Pancreas		Atrophy	Focal, Minimal
	Duct	Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 6-1		
Note: ANGIECTASIS	TGLs = 6-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 665	TRT#: 17	SEX: Male	DAY ON TEST: 653
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043096

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 3-7		
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 666

TRT#: 17

SEX: Male

DAY ON TEST: 654

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043097

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	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: LEUKEMIA MONUC			
TGLs = 7-5			
Note: NEPHROPATHY			
TGLs = 7-5			
* Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC			
TGLs = 8-6-1			
Note: ANOM HEPAT LOB			
TGLs = 9-25			
Note: HYPERPLASIA			
TGLs = 8-6-1			
Note: HYPERPLASIA			
TGLs = 8-6-1			
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC			
TGLs = 15-2			
* Lymph Node	Axillary	Leukemia Mononuclear	
	Bronchial	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 666

TRT#: 17

SEX: Male

DAY ON TEST: 654

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043097

ORGAN AND ACCOUNTABLE SITE STATUS

Deep Cervical	Leukemia Mononuclear	
Iliac	Leukemia Mononuclear	
Inguinal	Leukemia Mononuclear	
Mandibular	Leukemia Mononuclear	
Mediastinal	Leukemia Mononuclear	
Mesenteric	Leukemia Mononuclear	
Pancreatic	Leukemia Mononuclear	
Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-21]		
[Leukemia Mononuclear TGLS = 2-8]		
[Leukemia Mononuclear TGLS = 5-24]		
[Leukemia Mononuclear TGLS = 10-26]		
[Leukemia Mononuclear TGLS = 11-27]		
[Leukemia Mononuclear TGLS = 12-28]		
[Leukemia Mononuclear TGLS = 16-29]		
[Leukemia Mononuclear TGLS = 14-3]		
Mesentery	Leukemia Mononuclear	
* Nose	Leukemia Mononuclear	
* Preputial Gland	Inflammation	Suppurative, Minimal
* Prostate	Inflammation	Suppurative, Moderate
	Leukemia Mononuclear	
* Skin	Subcut Tiss	
	Subcut Tiss	
Note: FIBROMA TGLs = 4-23		
Note: [LIPOMA] TGLs = 3-22		
* Spleen	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6		
* Testes	Interstit Cell	Hyperplasia
Note: [HYPERPLASIA] TGLs = 7		
* Thymus	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 13-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 666

TRT#: 17

SEX: Male

DAY ON TEST: 654

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043097

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 667

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043098

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lymph Node - Mesenteric	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood Vessel	Mesent Artery	Inflammation	Chronic, Moderate
	Thoracic	Inflammation	Chronic, Mild
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 3-21			
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 5-5			
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Inflammation	Focal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 6-6-1			
Note: LEUKEMIA MONUC TGLs = 6-6-1			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Hyperplasia	Moderate
	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 667	TRT#: 17	SEX: Male	DAY ON TEST: 729
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043098

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Dilatation	Minimal
* Pancreas		Atrophy	Focal, Minimal
	Duct	Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 8-1		
Note: ANGIECTASIS	TGLs = 8-1		
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Moderate
* Skin	Artery, Subcut Tiss	Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		
* Thyroid Gland		Degeneration	Cystic, Minimal
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 668

TRT#: 17

DOSE: 0.0275% CHLORINE

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 520

HISTO: A87043099

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
* Mammary Gland	* Nose	* Parathyroid Gland	* Salivary Glands
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
* Heart		Nephropathy	Mild
* Kidney		Atrophy	Moderate
* Liver	Centrilobular Biliar Tract Bile Duct	Fibrosis Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Moderate Multifocal, Mild
<p>Note: LEUKEMIA MONUC TGLs = 6-6-1 Note: HYPERPLASIA TGLs = 7-24</p>			
* Lung		Alveolar/Bronchiolar Adenoma Leukemia Mononuclear	
* Lymph Node	Bronchial Inguinal Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy Leukemia Mononuclear	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 668

TRT#: 17

SEX: Male

DAY ON TEST: 520

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043099

ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Hyperplasia Leukemia Mononuclear	Focal, Mild
Note: [HYPERPLASIA] TGLs = 3-1 * Preputial Gland		Adenoma Degeneration Inflammation	Cystic, Moderate Suppurative, Moderate
Note: ADENOMA TGLs = 3-23 Note: INFLAMMATION TGLs = 3-23 Note: DEGEN TGLs = 3-23 * Prostate		Inflammation Leukemia Mononuclear Leukemia Mononuclear	Suppurative, Moderate
* Seminal Vesicle * Skin	Subcut Tiss Subcut Tiss Sebaceous Gl	Abscess Hemangioma Hyperplasia Keratoacanthoma	Mild Moderate
Note: HEMANGIOMA TGLs = 2-22 Note: [HYPERPLASIA] TGLs = 2-22 Note: KERATOACANTHOMA TGLs = 1-21 * Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6 * Stomach * Testes	Forestomach, Mucosa Interstit Cell Interstit Cell	Hyperplasia Adenoma Hyperplasia	Papillary, Mild Mild
Note: [ADENOMA] TGLs = 4-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 669

TRT#: 17

SEX: Male

DAY ON TEST: 685

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A87043100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Brain	* Epididymis	* Esophagus
* Heart	* 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
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
* Bone		Hyperostosis	Mild
* Bone Marrow		Myelofibrosis	Moderate
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 5-5		
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-6-1		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-2		
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-5-1		
* Nose		Fungus	Moderate
		Inflammation	Suppurative, Moderate
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Suppurative, Mild
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA	TGLs = 1-21		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 669	TRT#: 17	SEX: Male	DAY ON TEST: 685
	DOSE: 0.0275% CHLORINE	DISP: Natural Death	HISTO: A87043100

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: DEGEN TGLs = 3-7			
Note: ADENOMA TGLs = 2-7			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 670

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* 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 - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 6-24]		
* Brain		Glioma Benign	
	Note: GLIOMA BGN TGLs = 9-1-1		
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 7-5,8-23]		
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-21]		
Mesentery		Hemorrhage	Moderate
	[Hemorrhage TGLS = 2-22]		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 670

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043101

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 671

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Accessory Adrenal Cortical Nodule Pheochromocytoma Benign Nephropathy	Mild Marked
* Kidney [Nephropathy TGLS = 2-5]			
* Liver	Biliar Tract Bile Duct	Angiectasis Fibrosis Hyperplasia Infiltration Cellular Inflammation	Minimal Minimal Minimal Mixed Cell, Mild Focal, Mild
Mesentery [Angiectasis TGLS = 3-22] [Necrosis TGLS = 3-22]	Fat	Angiectasis Inflammation Necrosis	Mild Chronic, Minimal Mild
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis Inflammation	Mild Suppurative, Minimal Suppurative, Mild
* Preputial Gland		Inflammation	
* Prostate		Inflammation	
* Skin Note: [SQUAM CEL CARC] TGLs = 1-21		Squamous Cell Carcinoma	
* Stomach	Glandular Forestomach, Mucosa	Erosion Hyperplasia	Mild Papillary, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 671	TRT#: 17	SEX: Male	DAY ON TEST: 729
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043102

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: [ADENOMA] TGLs = 4-7			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 672

TRT#: 17

SEX: Male

DAY ON TEST: 721

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: 81

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea

MISSING

* Brain

OBSERVATIONS

* Adrenal Gland Note: [PHEOCHROM MAL] TGLs = 4-21	Medulla	Pheochromocytoma Malignant	
* Bone Marrow		Angiectasis	Mild
		Leukemia Mononuclear	
		Adenoma	Multiple
* Islets, Pancreatic Note: [ADENOMA] TGLs = 11-23			
* Kidney Note: [NEPHROPATHY] TGLs = 5-5		Nephropathy	Marked
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: [HYPERPLASIA] TGLs = 7-6-1,6-22,8-6-1			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: [ANGIECTASIS] TGLs = 9-1			
Note: [ADENOMA] TGLs = 9-1			
* Prostate		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 672	TRT#: 17	SEX: Male	DAY ON TEST: 721
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: 81

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 3-6			
* Testes	Germinal Epith	Degeneration	Moderate
		Hyperplasia	Minimal
Note: [DEGEN] TGLs = 1-7			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Angiectasis	Minimal
Note: [ANGIECTASIS] TGLs = 2-8			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 673

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043104

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Gland
 - Medulla
 - [Pheochromocytoma Malignant TGLS = 2-21]
- * Islets Panc
 - Note: [HYPERPLASIA] TGLs = 7
- * Kidney
 - Nephropathy
- * Liver
 - Biliar Tract
 - Fibrosis
 - Focal Cellular Change
 - Hepatocellular Carcinoma
 - Bile Duct
 - Hyperplasia
 - Inflammation
 - [Focal Cellular Change TGLS = 3-22]
 - [Hepatocellular Carcinoma TGLS = 3-22]
- * Mammary Gland
 - Dilatation
- * Pituitary Gland
 - Angiectasis
 - Hyperplasia
- * Prostate
 - Pars Distalis
 - Inflammation
- * Skin
 - Hyperkeratosis
 - Inflammation
- * Testes
 - [Inflammation TGLS = 4-23]
 - Interstitial Cell
 - Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 673

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043104

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

Degeneration

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 674

TRT#: 17

SEX: Male

DAY ON TEST: 522

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86038841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 4-2			
* Lymph Node	Mandibular	Hyperplasia	Marked
[Hyperplasia TGLS = 1-8-1]			
* Nose		Fungus	Mild
		Inflammation	Suppurative, Moderate
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-7			
Zymbal's Gland		Carcinoma	
Note: CARCINOMA TGLs = 5-21			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 675

TRT#: 17

SEX: Male

DAY ON TEST: 533

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A87043105

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Epididymis
* Intestine Large - Colon
* Intestine Small - Jejunum
* Nose
* Prostate
* Stomach - Forestomach
* Urinary Bladder

* Adrenal Gland - Medulla
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Pancreas
* Salivary Glands
* Stomach - Glandular

* Bone
* Heart
* Intestine Small - Duodenum
* Lymph Node - Mandibular
* Parathyroid Gland
* Seminal Vesicle
* Thyroid Gland

* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Mammary Gland
* Preputial Gland
* Skin
* Trachea

OBSERVATIONS

* Bone Marrow
* Kidney
* Liver

Leukemia Mononuclear
Leukemia Mononuclear
Hepatodiaphragmatic Nodule
Leukemia Mononuclear

Mild

Note: [HDN] TGLs = 6-22

* Lung
* Lymph Node

Bronchial
Mediastinal
Mesenteric
Pancreatic

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Note: [LEUKEMIA MONUC] TGLs = 8-3

Note: [LEUKEMIA MONUC] TGLs = 7-5-1

Mesentery

Leukemia Mononuclear
Sarcoma

Note: [SARCOMA] TGLs = 5-21

* Pituitary Gland

Note: [ADENOMA] TGLs = 1

Adenoma

* Spleen

Note: [LEUKEMIA MONUC] TGLs = 4-6

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Note: [ADENOMA] TGLs = 3-7

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 675

TRT#: 17

SEX: Male

DAY ON TEST: 533

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A87043105

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 676

TRT#: 17

SEX: Male

DAY ON TEST: 624

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A87043106

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lung		Hemorrhage	Mild
[Hemorrhage TGLS = 4-2]			
* Lymph Node	Mandibular	Angiectasis	Mild
	Mediastinal	Angiectasis	Mild
	Mandibular	Hyperplasia	Mild
[Angiectasis TGLS = 1-8]			
[Hyperplasia TGLS = 1-8]			
* Mammary Gland		Dilatation	Mild
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland		Angiectasis	Mild
[Angiectasis TGLS = 5-1]			
* Prostate		Inflammation	Suppurative, Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 2-7]			
[Degeneration TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 677 **TRT#:** 17 **SEX:** Male **DAY ON TEST:** 719
DOSE: 0.0275% CHLORINE **DISP:** Moribund Sacrifice **HISTO:** A87043107

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland Note: [PHEOCHROM BGN] TGLs = 10	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain Note: COMPRESSION TGLs = 11-1-1		Compression	Moderate
* Kidney Note: CYST TGLs = 7-23 Note: NEPHROPATHY TGLs = 8-5		Cyst Nephropathy	Mild Marked
* Liver Note: HEPATOCLR ADEN TGLs = 9-24	Biliar Tract Bile Duct	Fibrosis Hepatocellular Adenoma Hyperplasia Leukemia Mononuclear	Mild Mild
* Lung	Inguinal	Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland Note: FIBROADENOMA TGLs = 1-21		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis Leukemia Mononuclear	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 677

TRT#: 17

SEX: Male

DAY ON TEST: 719

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043107

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 10-1		
Note: ANGIECTASIS	TGLs = 10-1		
* Preputial Gland		Inflammation	Suppurative, Marked
Note: INFLAMMATION	TGLs = 2-8		
* Prostate		Inflammation	Suppurative, Marked
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-6		
[Leukemia Mononuclear TGLS = 6-22]			
* Stomach		Glandular	Mineralization
* Testes		Interstitial Cell	Mild
		Germinal Epith	Adenoma
		Interstitial Cell	Degeneration
			Hyperplasia
Note: DEGEN	TGLs = 3-7		Moderate
* Thymus			Minimal
Zymbals GI			
Note: [ADENOMA]	TGLs = 4-21		
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 678

TRT#: 17

SEX: Male

DAY ON TEST: 501

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A87043108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 4-10			
Note: [LEUKEMIA MONUC] TGLs = 4-10			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: [HEMORRHAGE] TGLs = 7-1			
[Leukemia Mononuclear TGLS = 7-1]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 5-6-1			
* Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: [HEMORRHAGE] TGLs = 6-2			
[Leukemia Mononuclear TGLS = 6-2]			
* Lymph Node	Mandibular	Angiectasis	Mild
	Mediastinal	Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 678	TRT#: 17	SEX: Male	DAY ON TEST: 501
	DOSE: 0.0275% CHLORINE	DISP: Natural Death	HISTO: A87043108

ORGAN AND ACCOUNTABLE SITE STATUS

	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: [ANGIECTASIS] TGLs = 1-8			
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 3-6			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
Note: [ADENOMA] TGLs = 7			
* Thyroid Gland	Follicle	Cyst	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 679

TRT#: 17

SEX: Male

DAY ON TEST: 669

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6-1,3-6-2		
* Lung		Hyperplasia	Macrophage, Minimal
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-3		
Note: LEUKEMIA MONUC	TGLs = 9-23		
	[Leukemia Mononuclear TGLs = 2-8]		
Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-22		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 679

TRT#: 17

SEX: Male

DAY ON TEST: 669

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043109

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 10-1		Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 10-1			
* Prostate			Inflammation	Suppurative, Marked
* Skin			Hyperkeratosis	Moderate
			Inflammation	Chronic, Moderate
Note: HYPERKERATOSIS	TGLs = 1-21			
Note: INFLAMMATION	TGLs = 1-21			
* Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6			
* Testes		Germinal Epith	Degeneration	Moderate
Note: DEGEN	TGLs = 5-7			
* Thymus			Leukemia Mononuclear	
* Thyroid Gland			Ultimobranchial Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 680

TRT#: 17

SEX: Male

DAY ON TEST: 547

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Moderate
		Inflammation	Focal, Mild
* Lymph Node	Mediastinal	Angiectasis	Moderate
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Preputial Gland		Degeneration	Cystic, Mild
		Hyperplasia	Mild
[Degeneration TGLS = 2-8]			
[Hyperplasia TGLS = 2-8]			
* Prostate		Inflammation	Suppurative, Mild
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 1-21]			
* Testes	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	C Cell	Adenoma	
Tongue		Squamous Cell Papilloma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:22

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 681

TRT#: 17

SEX: Male

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lung | * Lymph Node - Mandibular |
| * Lymph Node - Mesenteric | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------------|---------------------------|-------------------------|----------------------|
| * Adrenal Gland | Bilateral, Medulla | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Focal, Mild |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pancreas | | Atrophy | Focal, Minimal |
| * Preputial Gland | | Adenoma | |
| | | Ectopic Tissue | Moderate |
| Note: [ADENOMA] TGLs = 1-21 | | | |
| [Ectopic Tissue TGLs = 1-21] | | | |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLs = 2-7] | | | |
| * Thyroid Gland | C Cell | Carcinoma | |
| Note: CARCINOMA TGLs = 3-3 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 682

TRT#: 17

SEX: Male

DAY ON TEST: 708

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Lymph Node - Mandibular	* Mammary Gland
* Nose	* Pancreas	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
Note: LEUKEMIA MONUC	TGLs = 5-10		
Note: LEUKEMIA MONUC	TGLs = 5-10		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 11-1-1		
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 6-5		
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-5-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:22
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 682	TRT#: 17	SEX: Male	DAY ON TEST: 708
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043112

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 9-23			
* Pituitary Gland		Angiectasis	Moderate
		Cyst	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
Note: CYST TGLs = 10-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
Note: FIBROMA TGLs = 2-22			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 3-7			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 683

TRT#: 17

SEX: Male

DAY ON TEST: 697

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach - Forestomach
- * Urinary Bladder

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Salivary Glands
- * Stomach - Glandular

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Seminal Vesicle
- * Thymus

- * Epididymis
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Pancreas
- * Skin
- * Trachea

OBSERVATIONS

- * Adrenal Gland
- * Bone Marrow
- * Kidney
- * Liver

- Medulla
- Biliar Tract
- Bile Duct

- Hyperplasia
- Leukemia Mononuclear
- Nephropathy
- Fatty Change
- Fibrosis
- Hyperplasia
- Leukemia Mononuclear

- Mild
- Moderate
- Moderate
- Mild
- Moderate

Note: FATTY CHANGE TGLs = 9-6-1
 Note: LEUKEMIA MONUC TGLs = 9-6-1

- * Lung
- * Lymph Node

- Mediastinal
- Pancreatic

- Leukemia Mononuclear
- Angiectasis
- Angiectasis

- Mild
- Mild

Note: ANGIECTASIS TGLs = 10-3
 Note: ANGIECTASIS TGLs = 5-21

- * Mammary Gland
- * Nose

- Dilatation
- Fungus

- Mild
- Minimal

- * Pituitary Gland
- * Preputial Gland
- * Prostate
- * Spleen

- Pars Distalis

- Inflammation
- Hyperplasia
- Inflammation
- Inflammation
- Fibrosis

- Suppurative, Minimal
- Focal, Mild
- Suppurative, Minimal
- Suppurative, Minimal
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 683	TRT#: 17	SEX: Male	DAY ON TEST: 697
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043113

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 7-22		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6			
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Moderate
Note: DEGEN TGLs = 4-7			
Note: ADENOMA TGLs = 3-7			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 684

TRT#: 17

SEX: Male

DAY ON TEST: 550

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043114

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 1-5]			
* Liver		Inflammation	Focal, Minimal
* Lymph Node	Mesenteric	Angiectasis	Mild
	Mandibular	Hyperplasia	Moderate
[Angiectasis TGLS = 2-5-1]			
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Mild
* Testes	Interstit Cell	Hyperplasia	Mild
Zymbal's Gland		Adenoma	
Note: [ADENOMA] TGLs = 4-21			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 685

TRT#: 17

SEX: Male

DAY ON TEST: 645

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A87043115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Lung	* Lymph Node - Mesenteric	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 7-1-1		
* Islets, Pancreatic		Adenoma	
Note: ADENOMA	TGLs = 8-22		
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 4-5]			
* Liver		Congestion	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lymph Node	Renal	Angiectasis	Moderate
	Mandibular	Hyperplasia	Mild
[Angiectasis TGLS = 5-21]			
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 1-8]			
* Nose		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
* Preputial Gland		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 685	TRT#: 17	SEX: Male	DAY ON TEST: 645
	DOSE: 0.0275% CHLORINE	DISP: Natural Death	HISTO: A87043115

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Moderate
* Testes	Germinal Epith	Degeneration	Moderate
	Interstit Cell	Hyperplasia	Mild

Note: [HYPERPLASIA] TGLs = 3-7
[Degeneration TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 686

TRT#: 18

SEX: Male

DAY ON TEST: 94

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart	Inflammation	Chronic, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 687

TRT#: 18

SEX: Male

DAY ON TEST: 95

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone
* Esophagus
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

OBSERVATIONS

* Heart
* Kidney

Inflammation
Nephropathy

Chronic, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 688

TRT#: 18

SEX: Male

DAY ON TEST: 95

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes
* Urinary Bladder

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thymus

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Thyroid Gland

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Trachea

OBSERVATIONS

* Kidney Nephropathy Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 689

TRT#: 18

SEX: Male

DAY ON TEST: 93

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thyroid Gland

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Trachea

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Kidney Nephropathy Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 690

TRT#: 18

SEX: Male

DAY ON TEST: 94

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Pancreas
* Prostate
* Spleen
* Thyroid Gland

* Adrenal Gland - Medulla
* Epididymis
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Parathyroid Gland
* Salivary Glands
* Stomach - Forestomach
* Trachea

* Bone
* Esophagus
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Seminal Vesicle
* Stomach - Glandular
* Urinary Bladder

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Preputial Gland
* Skin
* Testes

MISSING

* Thymus

OBSERVATIONS

* Heart
* Kidney

Inflammation
Nephropathy

Chronic, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 691

TRT#: 17

SEX: Male

DAY ON TEST: 459

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Focal Cellular Change	Minimal
* Preputial Gland		Dilatation	Moderate
		Hyperplasia	Mild
Note: DILATATION	TGLs = 1-8,2-8		
* Stomach	Forestomach, Mucosa	Atrophy	Focal, Mild
Note: ATROPHY	TGLs = 3-21		
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 692

TRT#: 17

SEX: Male

DAY ON TEST: 457

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mesenteric	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 3-21]			
* Lymph Node	Mandibular	Hyperplasia	Mild
* Nose		Inflammation	Suppurative, Minimal
* Pancreas	Duct	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 1-7,2-7			
* Thyroid Gland	Follicle	Hyperplasia	Macrophage, Minimal
		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 693

TRT#: 17

SEX: Male

DAY ON TEST: 415

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Intestine Large - Cecum
* Intestine Large - Rectum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Cortex Medulla	Focal Cellular Change Leukemia Mononuclear Leukemia Mononuclear	Minimal
Note: LEUKEMIA MONUC TGLs = 3-10 [Focal Cellular Change TGLS = 3-10]			
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage Leukemia Mononuclear	Mild
Note: HEMORRHAGE TGLs = 5-1			
* Heart		Leukemia Mononuclear	
* Intestine Large	Colon	Leukemia Mononuclear	
* Intestine Small	Duodenum Ileum Jejunum	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia Leukemia Mononuclear Necrosis	Minimal Focal, Mild
Note: LEUKEMIA MONUC TGLs = 4-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular Mediastinal	Leukemia Mononuclear Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 693	TRT#: 17	SEX: Male	DAY ON TEST: 415
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A86037933

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	Mesenteric	Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Skin	Subcut Tiss	Inflammation	Suppurative, Mild
Note: FIBROMA TGLs = 1-21		Fibroma	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			
* Testes	Interstit Cell	Adenoma	
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 694

TRT#: 17

SEX: Male

DAY ON TEST: 459

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 2-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 695

TRT#: 17

SEX: Male

DAY ON TEST: 458

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Minimal
* Pituitary Gland	Pars Distalis	Focal Cellular Change	Minimal
		Hemorrhage	Mild
Note: HEMORRHAGE	TGLs = 1-1		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 696

TRT#: 21

SEX: Male

DAY ON TEST: 639

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------------|-----------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Heart | * Intestine Large - Cecum | * Intestine Large - Colon |
| * Intestine Large - Rectum | * Intestine Small - Duodenum | * Intestine Small - Jejunum | * Islets, Pancreatic |
| * Lymph Node - Mandibular | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach - Forestomach | * Stomach - Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|------------------------------------------------------------------------|--------------|-------------------------|-----------------------|
| * Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Intestine Small | Ileum | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 3-6
[Leukemia Mononuclear TGLS = 3-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| * Pancreas | | Atrophy | Focal, Minimal |
| * Pituitary Gland | | Necrosis | Marked |
| * Preputial Gland | | Carcinoma | |
| | | Inflammation | Suppurative, Moderate |
| Note: [CARCINOMA] TGLs = 1-21 | | | |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-6 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 696	TRT#: 21	SEX: Male	DAY ON TEST: 639
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043224

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes Note: ADENOMA TGLs = 2-7	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 697

TRT#: 21

SEX: Male

DAY ON TEST: 372

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A86037918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Marked
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 8-1-1,8-1-2		
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
[Fatty Change TGLS = 6-22]			
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-2		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 697

TRT#: 21

SEX: Male

DAY ON TEST: 372

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A86037918

ORGAN AND ACCOUNTABLE SITE STATUS

Note: NECROSIS TGLs = 3-21

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-6

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 698

TRT#: 21

SEX: Male

DAY ON TEST: 583

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043225

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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Hyperplasia	Minimal Mild
* Bone Marrow		Histiocytic Sarcoma	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Histiocytic Sarcoma	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
Note: [HISTIO SARC] TGLs = 21.1			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 2-1			
Note: ADENOMA TGLs = 2-1			
Skeletal Muscle		Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation Histiocytic Sarcoma	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 699

TRT#: 21

SEX: Male

DAY ON TEST: 365

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A86037919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Kidney		Carcinoma	Metastatic (Lung)
		Nephropathy	Minimal
Note: CARCINOMA	TGLs = 5-22		
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Minimal
* Lung	Centrilobular	Necrosis	Moderate
	Mediastinum	Carcinoma	Metastatic (Lung)
		Carcinoma	
* Lymph Node	Mediastinal	Carcinoma	Metastatic (Lung)
Note: CARCINOMA	TGLs = 3-2-2		
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 4-21		
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
Skeletal Muscle		Carcinoma	Metastatic (Lung)
Tissue NOS		Carcinoma	Metastatic (Lung)
Note: CARCINOMA	TGLs = 2-2		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 699

TRT#: 21

SEX: Male

DAY ON TEST: 365

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A86037919

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 700

TRT#: 21

SEX: Male

DAY ON TEST: 614

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
Coagulating Gland	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Preputial Gland	* Salivary Glands
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
Blood Vessel	Mesent Artery	Inflammation	Chronic, Marked
Note: INFLAMMATION TGLs = 8-22			
Ear	Pinna	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 1-21			
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 15-23			
* Kidney		Cyst	Mild
		Nephropathy	Marked
Note: CYST TGLs = 11-5			
Note: NEPHROPATHY TGLs = 7-5			
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung	Mediastinum	Inflammation	Chronic, Mild
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 3-8			
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	Marked
Note: CYST TGLs = 9-1			
* Prostate		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 12-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 700	TRT#: 21	SEX: Male	DAY ON TEST: 614
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043226

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle Note: DILATATION TGLs = 13-7		Dilatation	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Squamous Cell Papilloma	
Note: PAPILLOMA SQUA TGLs = 10-4-1			
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 6-7-1]			
[Degeneration TGLS = 5-7-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 701

TRT#: 21

SEX: Male

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lymph Node - Mandibular	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
	Centrilobular	Atrophy	Minimal
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
[Hyperplasia TGLS = 9-6-1]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-8-1			
Mesentery		Inflammation	Chronic, Mild
	Fat	Necrosis	Moderate
Note: NECROSIS TGLs = 4-21			
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 701

TRT#: 21

SEX: Male

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043227

ORGAN AND ACCOUNTABLE SITE STATUS

Note: EDEMA	TGLs = 6-7	Edema	Moderate
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6		
Note: FIBROSIS	TGLs = 8-22		
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 702

TRT#: 21

SEX: Male

DAY ON TEST: 660

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Seminal Vesicle
* Trachea

* Bone
* Heart
* Intestine Small - Duodenum
* Mammary Gland
* Skin
* Urinary Bladder

* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Nose
* Stomach - Forestomach

* Epididymis
* Intestine Large - Colon
* Intestine Small - Jejunum
* Salivary Glands
* Stomach - Glandular

OBSERVATIONS

* Adrenal Gland
Note: PHEOCHROM BGN TGLs = 5-22

Bilateral, Medulla

Pheochromocytoma Benign

Blood Vessel
* Bone Marrow
* Kidney

Mesent Artery

Inflammation
Leukemia Mononuclear
Leukemia Mononuclear
Nephropathy

Chronic, Mild

Note: NEPHROPATHY TGLs = 4-5

* Liver

Angiectasis
Degeneration
Fibrosis
Hyperplasia
Hyperplasia
Leukemia Mononuclear

Moderate
Mild
Cystic, Mild
Mild
Moderate
Multifocal, Mild

Note: LEUKEMIA MONUC TGLs = 6-6

* Lung
* Lymph Node

Mandibular
Mediastinal
Mesenteric

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Mesentery
* Pancreas
* Parathyroid Gland
* Pituitary Gland

Pars Distalis

Atrophy
Hyperplasia
Adenoma
Angiectasis

Focal, Mild
Mild
Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 702

TRT#: 21

SEX: Male

DAY ON TEST: 660

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043228

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 7-1			
Note: ADENOMA	TGLs = 7-1			
* Preputial Gland			Degeneration Inflammation	Cystic, Mild Suppurative, Minimal
Note: DEGEN	TGLs = 10-8-1			
* Prostate			Inflammation	Suppurative, Mild
* Spleen			Fibrosis Leukemia Mononuclear Necrosis	Mild Focal, Mild
Note: FIBROSIS	TGLs = 8-6-1			
Note: NECROSIS	TGLs = 8-6-1			
Note: LEUKEMIA MONUC	TGLs = 3-6			
* Testes		Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
Note: [HYPERPLASIA]	TGLs = 7			
Note: [ADENOMA]	TGLs = 7			
* Thymus			Leukemia Mononuclear	
* Thyroid Gland		C Cell	Hyperplasia Carcinoma	Minimal
Zymbal's Gland				
Note: CARCINOMA	TGLs = 1-21			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 703

TRT#: 21

SEX: Male

DAY ON TEST: 718

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Esophagus
- * Intestine Large - Rectum
- * Mammary Gland
- * Stomach - Forestomach
- * Trachea
- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Pancreas
- * Stomach - Glandular
- * Urinary Bladder
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Jejunum
- * Parathyroid Gland
- * Testes
- * Epididymis
- * Intestine Large - Colon
- * Islets, Pancreatic
- * Salivary Glands
- * Thymus

OBSERVATIONS

- * Adrenal Gland
Note: PHEOCHROM CPLX TGLs = 5-23
Medulla
Pheochromocytoma Complex
- * Bone Marrow
Leukemia Mononuclear
- * Intestine Small
Ileum
Leukemia Mononuclear
- * Kidney
Leukemia Mononuclear
- * Liver
Centrilobular
Atrophy
Mild
- Biliar Tract
Fibrosis
Mild
- Bile Duct
Hyperplasia
Mild
- Hyperplasia
Mild
- Leukemia Mononuclear
Multifocal, Mild
- Note: LEUKEMIA MONUC TGLs = 6-6-1
[Hyperplasia TGLs = 6-6-1]
[Leukemia Mononuclear TGLs = 6-6-1]
- * Lung
Leukemia Mononuclear
Note: LEUKEMIA MONUC TGLs = 8-2
- * Lymph Node
Mandibular
Leukemia Mononuclear
- Mediastinal
Leukemia Mononuclear
- Mesenteric
Leukemia Mononuclear
- Note: LEUKEMIA MONUC TGLs = 2-8
Mesentery
Leukemia Mononuclear
- * Nose
Inflammation
Suppurative, Moderate
- * Pituitary Gland
Pars Distalis
Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 703

TRT#: 21

SEX: Male

DAY ON TEST: 718

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043229

ORGAN AND ACCOUNTABLE SITE STATUS

	Angiectasis	Moderate
	Hemorrhage	Moderate
	Leukemia Mononuclear	
Note: ADENOMA TGLs = 9-1		
Note: LEUKEMIA MONUC TGLs = 9-1		
Note: HEMORRHAGE TGLs = 9-1		
[Leukemia Mononuclear TGLS = 9-1]		
* Preputial Gland	Inflammation	Suppurative, Minimal
* Prostate	Inflammation	Suppurative, Marked
Note: INFLAMMATION TGLs = 7-7		
* Seminal Vesicle	Inflammation	Chronic, Minimal
* Skin	Basal Cell Carcinoma	
Note: BASAL CEL CARC TGLs = 1-21		
* Spleen	Fibrosis	Moderate
	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6		
Note: FIBROSIS TGLs = 3-22		
* Thyroid Gland	Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 704

TRT#: 21

SEX: Male

DAY ON TEST: 639

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC]	TGLs = 4-2-1,5-2-1		
* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: [LEUKEMIA MONUC]	TGLs = 3-5-1		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: [ADENOMA]	TGLs = 6-1		
Note: [ANGIECTASIS]	TGLs = 6-1		
* Preputial Gland		Carcinoma	
Note: [CARCINOMA]	TGLs = 1-21		
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland		Degeneration	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 704

TRT#: 21

SEX: Male

DAY ON TEST: 639

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043230

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 705

TRT#: 21

SEX: Male

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 4-22]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Angiectasis	Minimal
	Mandibular	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
Mesentery	Fat	Necrosis	Moderate
Note: [NECROSIS] TGLs = 3-21			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 1-7]			
[Degeneration TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 706

TRT#: 21

SEX: Male

DAY ON TEST: 653

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043232

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	* Salivary Glands	* Seminal Vesicle	* Stomach - Glandular
* Thyroid Gland	* Trachea		

MISSING

* Nose	* Pituitary Gland
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OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC] TGLs = 7-6-1			
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: [HEMORRHAGE] TGLs = 10-2			
Note: [LEUKEMIA MONUC] TGLs = 10-2			
Note: [HYPERPLASIA] TGLs = 10-2			
* Lymph Node	Axillary	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 706

TRT#: 21

SEX: Male

DAY ON TEST: 653

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043232

ORGAN AND ACCOUNTABLE SITE STATUS

	Renal	Leukemia Mononuclear	
Note: [LEUKEMIA MONUC]	TGLs = 8-23		
Note: [LEUKEMIA MONUC]	TGLs = 1-21		
Note: [LEUKEMIA MONUC]	TGLs = 2-8-1		
Note: [LEUKEMIA MONUC]	TGLs = 6-22		
Note: [LEUKEMIA MONUC]	TGLs = 9-3		
Mesentery		Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Skin	Subcut Tiss	Cyst	Mild
	Subcut Tiss	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: [LEUKEMIA MONUC]	TGLs = 5-6		
* Stomach	Forestomach	Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: [ADENOMA]	TGLs = 3-7		
* Thymus		Leukemia Mononuclear	
* Urinary Bladder	Transit Epithe	Hyperplasia	Minimal
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 707

TRT#: 21

SEX: Male

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 708

TRT#: 21

SEX: Male

DAY ON TEST: 669

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Heart	* 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	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Intestine Large	Cecum	Inflammation	Chronic, Mild
* Kidney	Renal Tubule	Hyperplasia Nephropathy	Minimal Marked
Note: NEPHROPATHY	TGLs = 4-5		
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Inflammation	Minimal Minimal Focal, Mild
Mesentery		Hemorrhage Inflammation	Moderate Chronic, Mild
Note: HEMORRHAGE	TGLs = 2-21		
* Pancreas		Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Moderate
* Stomach	Forestomach, Mucosa Forestomach	Hyperplasia Inflammation	Papillary, Moderate Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 708

TRT#: 21

SEX: Male

DAY ON TEST: 669

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043234

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 709

TRT#: 21

SEX: Male

DAY ON TEST: 718

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Epididymis	* Esophagus	* Intestine Large - Cecum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Salivary Glands	* Thymus
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
Note: [PHEOCHROM BGN] TGLs = 10			
Blood Vessel	Aorta	Degeneration	Marked
	Mesent Artery	Degeneration	Moderate
	Aorta	Mineralization	Marked
	Mesent Artery	Mineralization	Moderate
Note: DEGEN TGLs = 8-24			
[Degeneration TGLS = 8-24]			
* Bone		Atrophy	Mild
Note: ATROPHY TGLs = 13-9			
* Bone Marrow		Myelofibrosis	Moderate
Ductus Deferens		Degeneration	Marked
		Mineralization	Marked
Note: DEGEN TGLs = 2-23			
* Heart		Degeneration	Moderate
		Mineralization	Moderate
		Thrombosis	Marked
Note: MINERALIZATION TGLs = 10-5-1			
Note: DEGEN TGLs = 10-5-1			
Note: THROMBUS TGLs = 9-5-1			
* Intestine Large	Colon, Muscularis	Degeneration	Mild
	Muscularis, Rectum	Degeneration	Mild
	Colon	Mineralization	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 709 **TRT#:** 21 **SEX:** Male **DAY ON TEST:** 718
DOSE: 0.0140% CHLORINE **DISP:** Moribund Sacrifice **HISTO:** A87043235

ORGAN AND ACCOUNTABLE SITE STATUS

	Rectum	Mineralization	Mild
Note: MINERALIZATION	TGLs = 7-4		
Note: DEGEN	TGLs = 7-4		
* Intestine Small	Duodenum, Muscularis	Degeneration	Mild
	Duodenum	Mineralization	Mild
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-5		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung	Alveolar Epith	Degeneration	Mild
	Bronchus	Degeneration	Mild
	Alveolar Epith	Hyperplasia	Mild
		Hyperplasia	Macrophage, Mild
	Bronchus	Mineralization	Mild
Note: DEGEN	TGLs = 14-25		
Note: HYPERPLASIA	TGLs = 14-25		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Atrophy	Focal, Mild
* Parathyroid Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 11-3		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Seminal Vesicle		Degeneration	Moderate
		Mineralization	Moderate
Note: DEGEN	TGLs = 3-7		
Skeletal Muscle		Degeneration	Moderate
	Diaphragm	Mineralization	Moderate
Note: DEGEN	TGLs = 5-21		
Note: MINERALIZATION	TGLs = 5-21		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 709	TRT#: 21	SEX: Male	DAY ON TEST: 718
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043235

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 12-22		
* Spleen	Artery	Degeneration	Mild
		Depletion Cellular	Mild
	Artery	Mineralization	Mild
* Stomach	Forestomach, Muscularis	Degeneration	Moderate
	Glandular, Muscularis	Degeneration	Moderate
	Forestomach	Mineralization	Moderate
	Glandular	Mineralization	Moderate
Note: MINERALIZATION	TGLs = 6-4		
Note: MINERALIZATION	TGLs = 6-4		
Note: DEGEN	TGLs = 6-4		
Note: DEGEN	TGLs = 6-4		
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 1-7		
* Trachea		Degeneration	Mild
		Mineralization	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 710

TRT#: 21

SEX: Male

DAY ON TEST: 540

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A87043236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland Note: [PHEOCHROM BGN] TGLs = 3-21	Medulla	Pheochromocytoma Benign	
* Brain Note: [COMPRESSION] TGLs = 7-1-1		Compression	Moderate
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Lymph Node Note: [ANGIECTASIS] TGLs = 2-8	Mandibular	Angiectasis	Mild
* Mammary Gland Note: [DILATATION] TGLs = 1-8		Dilatation	Moderate
Mesentery		Inflammation	Chronic, Mild
* Pituitary Gland Note: [ANGIECTASIS] TGLs = 6-1 Note: [ADENOMA] TGLs = 6-1	Pars Distalis	Adenoma	
		Angiectasis	Moderate
* Prostate		Inflammation	Suppurative, Marked
* Stomach	Glandular	Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 710

TRT#: 21

SEX: Male

DAY ON TEST: 540

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A87043236

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 711

TRT#: 21

SEX: Male

DAY ON TEST: 684

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043237

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 |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach - Forestomach | * Stomach - Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Preputial Gland

OBSERVATIONS

- | | | | |
|----------------------|-----------------------------------------|-------------------------------------------------------------------------|----------------------|
| * Adrenal Gland | Cortex
Medulla
Bilateral, Medulla | Leukemia Mononuclear
Leukemia Mononuclear
Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Centrilobular | Atrophy | Mild |
| | Biliar Tract | Fatty Change | Minimal |
| | | Fibrosis | Mild |
| | Bile Duct | Hepatodiaphragmatic Nodule | Moderate |
| | | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 7-6-1 | | |
| Note: ANOM HEPAT LOB | TGLs = 6-23 | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Bronchial | Leukemia Mononuclear | |
| | Inguinal | Leukemia Mononuclear | |
| | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 8-5-1 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 711	TRT#: 21	SEX: Male	DAY ON TEST: 684
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043237

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 9-3		
* Mammary Gland		Dilatation	Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	Mild
Note: CYST	TGLs = 11-1		
Note: ADENOMA	TGLs = 11-1		
* Prostate		Inflammation	Suppurative, Mild
* Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	Multiple, Two
Note: KERATOACANTHMA	TGLs = 1-21,2-22		
Note: FIBROMA	TGLs = 10-24		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Testes	Interstit Cell	Adenoma	
Note: ADENOMA	TGLs = 4-7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 712

TRT#: 21

SEX: Male

DAY ON TEST: 676

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Heart | * Intestine Large - Colon |
| * Intestine Small - Duodenum | * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic |
| * Lymph Node - Mandibular | * Lymph Node - Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach - Forestomach | * Stomach - Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|----------------------|---------------------------|------------------------------|------------------|
| * Adrenal Gland | Bilateral, Medulla | Pheochromocytoma Benign | |
| * Intestine Large | Cecum | Liposarcoma | |
| | Rectum | Parasite Metazoan | Mild |
| Note: LIPOSARC | TGLs = 6-23 | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Angiectasis | Mild |
| | | Degeneration | Cystic, Minimal |
| | | Focal Cellular Change | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Focal, Mild |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Artery | Mineralization | Mild |
| Note: ALV BRON ADEN | TGLs = 4-2 | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Adenoma | |
| Note: ADENOMA | TGLs = 1-21,2-8 | | |
| * Skin | | Keratoacanthoma | |
| Note: KERATOACANTHMA | TGLs = 5-22 | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 712

TRT#: 21

SEX: Male

DAY ON TEST: 676

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043238

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 713

TRT#: 21

SEX: Male

DAY ON TEST: 719

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

MISSING

* Intestine Large - Rectum	* Thymus
----------------------------	----------

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5-1			
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-8			
* Prostate		Hyperplasia	Focal, Minimal
		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 713

TRT#: 21

SEX: Male

DAY ON TEST: 719

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043239

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Degeneration

Hyperplasia

Cystic, Mild

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 714

TRT#: 21

SEX: Male

DAY ON TEST: 719

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043240

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
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Cortex Medulla Bilateral, Medulla	Focal Cellular Change Leukemia Mononuclear Leukemia Mononuclear Pheochromocytoma Benign	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney Note: NEPHROPATHY TGLs = 1-5		Nephropathy	Marked
* Liver	Centrilobular Biliar Tract Bile Duct	Atrophy Degeneration Fibrosis Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Cystic, Mild Moderate Moderate Multifocal, Moderate
Note: LEUKEMIA MONUC TGLs = 2-6-1 Note: HYPERPLASIA TGLs = 5-21			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-8			
* Pancreas		Atrophy	Focal, Minimal
* Prostate		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 714	TRT#: 21	SEX: Male	DAY ON TEST: 719
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043240

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 3-6		Leukemia Mononuclear
* Testes Note: ADENOMA TGLs = 4-7	Bilateral, Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 715

TRT#: 21

SEX: Male

DAY ON TEST: 524

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86038842

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
* Lymph Node - Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
[Hyperplasia TGLS = 3-6-1]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 6-2-1			
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Moderate
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 715

TRT#: 21

SEX: Male

DAY ON TEST: 524

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86038842

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 716

TRT#: 21

SEX: Male

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lung | * Lymph Node - Mandibular |
| * Lymph Node - Mesenteric | * Nose | * Pancreas | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach - Forestomach |
| * Stomach - Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------------------------------------------|---------------------------|-------------------------|----------------------|
| * Adrenal Gland
Note: PHEOCHROM BGN TGLs = 2-21 | Bilateral, Medulla | Pheochromocytoma Benign | |
| Blood Vessel | Mesent Artery | Inflammation | Chronic, Mild |
| * Kidney
Note: NEPHROPATHY TGLs = 3-5 | | Nephropathy | Marked |
| * Liver | Bile Duct | Focal Cellular Change | Minimal |
| | | Hyperplasia | Mild |
| | | Inflammation | Focal, Mild |
| * Mammary Gland | | Dilatation | Mild |
| * Parathyroid Gland
Note: HYPERPLASIA TGLs = 4-3 | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Inflammation | Suppurative, Minimal |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Testes
[Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 717

TRT#: 21

SEX: Male

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 3-5			
* Liver		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 8-23]			
* Lymph Node	Mandibular	Hyperplasia	Lymphoid, Moderate
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 7-1			
Note: ANGIECTASIS TGLs = 7-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Skin		Fibrosis	Mild
		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 717

TRT#: 21

SEX: Male

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043242

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROSIS TGLs = 6-22

Note: HYPERPLASIA TGLs = 6-22

Note: HYPERKERATOSIS TGLs = 6-22

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 718

TRT#: 21

SEX: Male

DAY ON TEST: 638

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 6-5-1,7-5-1		
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-5		
Note: LEUKEMIA MONUC	TGLs = 2-8		
Note: LEUKEMIA MONUC	TGLs = 10-3		
Mesentery		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 718	TRT#: 21	SEX: Male	DAY ON TEST: 638
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043243

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-7 Note: NECROSIS TGLs = 3-22	Fat	Necrosis	Moderate
* Pituitary Gland * Preputial Gland * Prostate	Pars Distalis	Adenoma Inflammation Hyperplasia Inflammation Basal Cell Carcinoma	Suppurative, Mild Focal, Minimal Suppurative, Minimal
* Skin Note: BASAL CEL CARC TGLs = 1-21			
* Spleen Note: LEUKEMIA MONUC TGLs = 5-6		Leukemia Mononuclear	
* Testes * Thymus	Interstit Cell	Hyperplasia Leukemia Mononuclear	Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 719

TRT#: 21

SEX: Male

DAY ON TEST: 614

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* 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	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain Note: COMPRESSION TGLs = 4-1		Compression	Moderate
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Focal, Mild
* Pituitary Gland Note: ADENOMA TGLs = 3-1	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Minimal
* Skin Note: KERATOACANTHOMA TGLs = 2-22		Keratoacanthoma	
Zymbal's Gland Note: CARCINOMA TGLs = 1-21		Carcinoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 720

TRT#: 21

SEX: Male

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Congestion	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Mild
[Hyperplasia TGLS = 4-6]			
* Pituitary Gland		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 5-1			
* Prostate		Hyperplasia	Focal, Minimal
		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
[Adenoma TGLS = 1-7,6-7]			
[Degeneration TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 731

TRT#: 25

SEX: Male

DAY ON TEST: 506

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone		Fracture Healed	Moderate
Note: FRACT HEALED	TGLs = 12-25		
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Fatty Change	Marked
	Biliar Tract	Fibrosis	Minimal
		Hemorrhage	Moderate
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Marked
Note: LEUKEMIA MONUC	TGLs = 6-6-1		
Note: ANOM HEPAT LOB	TGLs = 7-23		
[Fibrosis TGLS = 6-6-1]			
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-2		
* Lymph Node	Bronchial	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 731

TRT#: 25

SEX: Male

DAY ON TEST: 506

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043321

ORGAN AND ACCOUNTABLE SITE STATUS

	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-24		
Note: LEUKEMIA MONUC	TGLs = 10-3		
Note: LEUKEMIA MONUC	TGLs = 8-5		
Note: LEUKEMIA MONUC	TGLs = 4-22		
Mesentery		Hemorrhage	Mild
		Leukemia Mononuclear	
	Fat	Necrosis	Minimal
Note: NECROSIS	TGLs = 3-21		
Note: HEMORRHAGE	TGLs = 3-21		
* Preputial Gland		Inflammation	Suppurative, Mild
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 732

TRT#: 25

SEX: Male

DAY ON TEST: 718

DOSE: 0.00700%CHLORINE

DISP: Natural Death

HISTO: A87043322

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 - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Bilateral, Medulla	Pheochromocytoma Benign	
Blood Vessel	Mesent Artery	Inflammation	Chronic, Moderate
	Aorta	Mineralization	Moderate
Note: MINERALIZATION TGLs = 8-5-1			
Note: INFLAMMATION TGLs = 7-22			
* Bone Marrow		Hypercellularity	Moderate
		Myelofibrosis	Mild
* Heart		Mineralization	Mild
Note: MINERALIZATION TGLs = 10-5-1			
* Kidney		Cyst	Mild
		Nephropathy	Marked
Note: CYST TGLs = 5-5			
Note: NEPHROPATHY TGLs = 4-5			
* Liver		Angiectasis	Mild
	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
Note: ATROPHY TGLs = 6-21			
* Lung		Infiltration Cellular	Mixed Cell, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 732

TRT#: 25

SEX: Male

DAY ON TEST: 718

DOSE: 0.00700%CHLORINE

DISP: Natural Death

HISTO: A87043322

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node Note: ANGIECTASIS TGLs = 9-3	Mediastinal	Angiectasis	Moderate
Mesentery		Inflammation	Chronic, Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Preputial Gland Note: INFLAMMATION TGLs = 1-23		Inflammation	Suppurative, Marked
* Prostate		Inflammation	Suppurative, Moderate
* Stomach	Glandular, Mucosa	Degeneration	Moderate
	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Glandular, Mucosa	Hyperplasia	Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Mineralization	Mild
	Glandular	Mineralization	Moderate
	Forestomach	Ulcer	Moderate
Note: ULCER TGLs = 12-4			
Note: INFLAMMATION TGLs = 12-4			
Note: HYPERPLASIA TGLs = 12-4			
Note: HYPERPLASIA TGLs = 11-4			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	Artery	Inflammation	Chronic, Mild
Note: [ADENOMA] TGLs = 7			
Tongue	Epithelium	Developmental Malformation	Mild
Note: DEVELOP MALFOR TGLs = 13-24			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 733

TRT#: 25

SEX: Male

DAY ON TEST: 654

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney	Renal Tubule	Carcinoma	
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
Note: CARCINOMA	TGLs = 4-21		
* Liver		Angiectasis	Mild
	Centrilobular	Atrophy	Mild
		Degeneration	Cystic, Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland		Cyst	Moderate
Note: CYST	TGLs = 6-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 733	TRT#: 25	SEX: Male	DAY ON TEST: 654
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043323

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 734

TRT#: 25

SEX: Male

DAY ON TEST: 385

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Epididymis
* Intestine Large - Colon
* Intestine Small - Jejunum
* Nose
* Salivary Glands
* Stomach - Glandular
* Trachea

* Adrenal Gland - Medulla
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Pancreas
* Seminal Vesicle
* Testes
* Urinary Bladder

* Bone
* Heart
* Intestine Small - Duodenum
* Lung
* Parathyroid Gland
* Skin
* Thymus

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mesenteric
* Preputial Gland
* Stomach - Forestomach
* Thyroid Gland

OBSERVATIONS

* Brain
Note: COMPRESSION TGLs = 4-1
* Kidney
* Liver
Note: ANOM HEPAT LOB TGLs = 5-21
* Lymph Node
Note: HYPERPLASIA TGLs = 1-8-1
* Mammary Gland
* Pituitary Gland
Note: ADENOMA TGLs = 3-1
* Prostate
* Spleen
Note: PIGMENT TGLs = 2-6

Bile Duct
Mandibular
Pars Distalis

Compression
Nephropathy
Fatty Change
Hepatodiaphragmatic Nodule
Hyperplasia
Inflammation
Hyperplasia
Dilatation
Adenoma
Inflammation
Pigmentation

Moderate
Mild
Minimal
Mild
Minimal
Focal, Mild
Mild
Mild
Suppurative, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 735

TRT#: 25

SEX: Male

DAY ON TEST: 614

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 5-1-1			
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 6-23			
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 2-5			
* Liver	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Mild
Note: ANOM HEPAT LOB TGLs = 3-22			
* Mammary Gland		Dilatation	Moderate
Note: DILATATION TGLs = 1-21			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 4-1			
Note: ANGIECTASIS TGLs = 4-1			
* Preputial Gland		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 735

TRT#: 25

SEX: Male

DAY ON TEST: 614

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043324

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Moderate
* Testes	Interstit Cell	Adenoma	
* Thyroid Gland	Bilateral, C Cell	Adenoma	
		Degeneration	Cystic, Minimal

Note: [ADENOMA] TGLs = 3

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 736

TRT#: 25

SEX: Male

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Cyst	Mild
		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 6-5			
Note: CYST TGLs = 7-22			
* Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Granulomatous, Mild
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 736	TRT#: 25	SEX: Male	DAY ON TEST: 730
	DOSE: 0.00700%CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043325

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin Note: CYST EPITH INC TGLs = 1-21		Cyst Epithelial Inclusion	Mild
* Spleen Note: LEUKEMIA MONUC TGLs = 5-6		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 2-7,3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland		Degeneration	Cystic, Minimal
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 737

TRT#: 25

SEX: Male

DAY ON TEST: 676

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- * Adrenal Gland Medulla Pheochromocytoma Benign
- * Bone Marrow
- * Intestine Large Colon Leukemia Mononuclear
- * Kidney Leukemia Mononuclear
- Note: NEPHROPATHY TGLs = 4-5 Nephropathy Moderate
- * Liver Centrilobular Atrophy Mild
- Biliar Tract Fibrosis Mild
- Bile Duct Hyperplasia Mild
- Hyperplasia Multifocal, Mild
- Leukemia Mononuclear
- Necrosis Focal, Mild
- Note: LEUKEMIA MONUC TGLs = 5-6-1
- * Lung Leukemia Mononuclear
- * Lymph Node Bronchial Leukemia Mononuclear
- Inguinal Leukemia Mononuclear
- Mandibular Leukemia Mononuclear
- Mediastinal Leukemia Mononuclear
- Mesenteric Leukemia Mononuclear
- Note: LEUKEMIA MONUC TGLs = 1-8
- Mesentery Leukemia Mononuclear
- * Nose Fungus Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 737	TRT#: 25	SEX: Male	DAY ON TEST: 676
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043326

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Inflammation	Suppurative, Minimal
* Spleen		Hyperplasia	Focal, Minimal
Note: LEUKEMIA MONUC TGLs = 3-6		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
Note: ADENOMA TGLs = 2-7			
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 738

TRT#: 25

SEX: Male

DAY ON TEST: 523

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Gland - Cortex | * Bone | * Brain | * Esophagus |
| * Heart | * Intestine Large - Cecum | * Intestine Large - Colon | * Intestine Large - Rectum |
| * Intestine Small - Duodenum | * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach - Forestomach | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------|-------------------------|---------------------|
| * Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Hemorrhage | Moderate |
| | | Inflammation | Chronic, Moderate |
| | | Necrosis | Focal, Moderate |
| Note: NECROSIS | TGLs = 6-23 | | |
| Note: HEMORRHAGE | TGLs = 6-23 | | |
| Note: INFLAMMATION | TGLs = 6-23 | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| [Leukemia Mononuclear TGLS = 9-5] | | | |
| * Liver | Centrilobular | Atrophy | Moderate |
| | | Fatty Change | Moderate |
| | Biliar Tract | Fibrosis | Minimal |
| | | Focal Cellular Change | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Minimal |
| | | Leukemia Mononuclear | |
| Note: FOCAL CELL CH | TGLs = 18-29 | | |
| [Leukemia Mononuclear TGLS = 10-6] | | | |
| * Lung | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 738

TRT#: 25

SEX: Male

DAY ON TEST: 523

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043327

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 15-2]

* Lymph Node	Axillary	Leukemia Mononuclear	
	Bronchial	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 13-27

Note: LEUKEMIA MONUC TGLs = 12-26

[Leukemia Mononuclear TGLS = 11-25]

[Leukemia Mononuclear TGLS = 14-3]

[Leukemia Mononuclear TGLS = 1-21]

[Leukemia Mononuclear TGLS = 3-8]

[Leukemia Mononuclear TGLS = 2-22]

[Leukemia Mononuclear TGLS = 7-24]

[Leukemia Mononuclear TGLS = 16-28]

Mesentery		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas		Leukemia Mononuclear	
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	
* Stomach	Glandular	Erosion	Minimal
	Glandular, Mucosa	Hyperplasia	Mild

Note: EROSION TGLs = 17-4-1

[Erosion TGLS = 17-4-1]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 738

TRT#: 25

SEX: Male

DAY ON TEST: 523

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043327

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 739

TRT#: 25

SEX: Male

DAY ON TEST: 676

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node - Mesenteric

OBSERVATIONS

* Adrenal Gland Note: PHEOCHROM MAL TGLs = 2-10	Bilateral, Medulla	Pheochromocytoma Malignant	
* Bone Marrow		Hypercellularity	Moderate
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney Note: NEPHROPATHY TGLs = 3-5		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Focal, Minimal
* Lung		Inflammation	Granulomatous, Minimal
* Lymph Node Note: HYPERPLASIA TGLs = 4-3	Mandibular	Hyperplasia	Lymphoid, Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
Mesentery		Inflammation	Chronic, Moderate
* Nose		Fungus	Mild
		Hyperplasia	Squamous, Moderate
		Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Prostate		Inflammation	Suppurative, Moderate
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 739	TRT#: 25	SEX: Male	DAY ON TEST: 676
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043328

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Inflammation	Chronic, Marked
	Forestomach	Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 740

TRT#: 25

SEX: Male

DAY ON TEST: 721

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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 - Mesenteric	* Mammary Gland	* Nose
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
Note: [HYPERPLASIA]	TGLs = 5		
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Focal, Minimal
* Lung		Thymoma Malignant	Metastatic (Thymus)
* Lymph Node	Mandibular	Hyperplasia	Mild
Mesentery		Inflammation	Chronic, Moderate
* Pancreas		Atrophy	Focal, Mild
* Parathyroid Gland		Hyperplasia	Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Degeneration	Moderate
Note: DEGEN	TGLs = 2-7		
[Adenoma TGLS = 1-7]			
* Thymus		Thymoma Malignant	
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 740

TRT#: 25

SEX: Male

DAY ON TEST: 721

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043329

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 741

TRT#: 25

SEX: Male

DAY ON TEST: 597

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - 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 | * Lung |
| * Lymph Node - Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach - Forestomach | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

INSUFFICIENT TISSUE

- * Pituitary Gland

OBSERVATIONS

- | | | | |
|------------------------|-------------------|-----------------------|-------------------|
| * Kidney | | Nephropathy | Moderate |
| Note: NEPHROPATHY | TGLs = 5-5 | | |
| * Liver | Biliar Tract | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Focal, Minimal |
| * Lymph Node | Mandibular | Hyperplasia | Lymphoid, Mild |
| * Nose | | Fungus | Mild |
| | | Inflammation | Suppurative, Mild |
| * Stomach | Glandular, Mucosa | Hyperplasia | Mild |
| | Glandular | Infiltration Cellular | Lymphocyte, Mild |
| Note: INFILTRAT CELL | TGLs = 6-4-1 | | |
| Note: HYPERPLASIA | TGLs = 6-4-1 | | |
| * Testes | Interstit Cell | Adenoma | |
| [Adenoma TGLS = 4-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 742

TRT#: 25

SEX: Male

DAY ON TEST: 490

DOSE: 0.00700%CHLORINE

DISP: Natural Death

HISTO: A87043331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney	Pelvis, Transit Epithe	Carcinoma Hydronephrosis Nephropathy	Moderate Mild
Note: CARCINOMA TGLs = 4-5-1 Note: HYDRONEPHROSIS TGLs = 4-5-1			
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Inflammation	Mild Mild Focal, Minimal
* Lymph Node	Mediastinal	Angiectasis	Moderate
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Mild
* Testes	Interstit Cell	Adenoma Hemorrhage	Minimal
Note: HEMORRHAGE TGLs = 2-7 [Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 743

TRT#: 25

SEX: Male

DAY ON TEST: 638

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 17-5,17-5-1		
* Intestine Large	Cecum	Leukemia Mononuclear	
	Colon	Leukemia Mononuclear	
* Intestine Small	Ileum	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14-4		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: LEUKEMIA MONUC	TGLs = 11-5		
Note: NEPHROPATHY	TGLs = 11-5		
* Liver	Centrilobular	Atrophy	Marked
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 12-6-1		
[Hyperplasia TGLS = 12-5-1]			
* Lung	Alveolar Epith	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 743

TRT#: 25

SEX: Male

DAY ON TEST: 638

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043332

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 13-5		
Note: LEUKEMIA MONUC	TGLs = 18-3		
	[Leukemia Mononuclear TGLS = 15-24]		
	[Leukemia Mononuclear TGLS = 9-23]		
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Minimal
Note: LEUKEMIA MONUC	TGLs = 16-25		
Note: NECROSIS	TGLs = 16-25		
* Pancreas		Atrophy	Focal, Mild
* Preputial Gland		Adenoma	
		Inflammation	Suppurative, Moderate
Note: INFLAMMATION	TGLs = 3-8		
Note: ADENOMA	TGLs = 3-8		
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Leukemia Mononuclear	
		Necrosis	Focal, Moderate
Note: NECROSIS	TGLs = 8-22		
Note: LEUKEMIA MONUC	TGLs = 7-6		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: [ADENOMA]	TGLs = 7		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 744

TRT#: 25

SEX: Male

DAY ON TEST: 619

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------------|---------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Heart | * Intestine Large - Cecum | * Intestine Large - Colon |
| * Intestine Large - Rectum | * Intestine Small - Duodenum | * Intestine Small - Ileum | * Islets, Pancreatic |
| * Lymph Node - Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------------|-------------------------|-------------------|
| * Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Intestine Small | Jejunum | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 6-21 | | | |
| * Kidney | | Nephropathy | Marked |
| Note: NEPHROPATHY TGLs = 2-5 | | | |
| * Liver | Biliar Tract | Degeneration | Cystic, Minimal |
| | Bile Duct | Fibrosis | Minimal |
| | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 3-6 | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mandibular | Hyperplasia | Mild |
| | Mediastinal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 1-8] | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Suppurative, Mild |
| * Spleen | | Fibrosis | Moderate |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 4-6 | | | |
| * Stomach | Forestomach, Mucosa | Hyperplasia | Papillary, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 744

TRT#: 25
DOSE: 0.00700%CHLORINE

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 619
HISTO: A87043333

ORGAN AND ACCOUNTABLE SITE STATUS

	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Leukemia Mononuclear	
	Forestomach	Ulcer	Marked
* Testes	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 745

TRT#: 25

SEX: Male

DAY ON TEST: 54

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A85034462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver Note: FIBROSIS TGLs = 1-21	Fibrosis	Focal, Minimal
* Nose	Fungus Inflammation	Moderate Suppurative, Moderate
* Prostate	Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 746 **TRT#:** 25 **SEX:** Male **DAY ON TEST:** 668
DOSE: 0.00700%CHLORINE **DISP:** Moribund Sacrifice **HISTO:** A87043334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Moderate
Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
Note: CATARACT TGLs = 1-21			
Note: DEGEN TGLs = 1-21			
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
Note: INFILTRAT CELL TGLs = 5-6			
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA TGLs = 6-1			
Note: ANGIECTASIS TGLs = 6-1			
* Preputial Gland		Carcinoma	
Note: CARCINOMA TGLs = 2-22			
* Prostate		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 746	TRT#: 25	SEX: Male	DAY ON TEST: 668
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043334

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: HEMA CELL PROL TGLs = 4-6		Hematopoietic Cell Proliferation	Moderate
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 747

TRT#: 25

SEX: Male

DAY ON TEST: 653

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Thrombosis	Moderate
Note: THROMBUS	TGLs = 11-5-1		
* Intestine Small	Ileum	Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 6-5		
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Thrombosis	Minimal
Note: LEUKEMIA MONUC	TGLs = 8-6		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-2		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 747

TRT#: 25

SEX: Male

DAY ON TEST: 653

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043335

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric
Pancreatic
Renal

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 1-8
[Leukemia Mononuclear TGLS = 12-3]
[Leukemia Mononuclear TGLS = 4-21]
[Leukemia Mononuclear TGLS = 9-23]

Mesentery

Leukemia Mononuclear
Necrosis

Fat

Moderate

Note: NECROSIS TGLs = 7-22

* Prostate

Inflammation

Suppurative, Minimal

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 5-6

* Stomach

Forestomach

Inflammation

Chronic, Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

Note: ADENOMA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 748

TRT#: 25

SEX: Male

DAY ON TEST: 435

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------------|---------------------------|-----------------------------|
| * Adrenal Gland - 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 | * Lymph Node - Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------------------------------------|---------------|-----------------------|-------------------|
| * Adrenal Gland
Note: [HISTIO SARC] TGLs = 10 | Cortex | Histiocytic Sarcoma | |
| * Bone Marrow | | Histiocytic Sarcoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Mild |
| | Biliar Tract | Fibrosis | Minimal |
| | Bile Duct | Histiocytic Sarcoma | |
| Note: [HISTIO SARC] TGLs = 6 | | Hyperplasia | Mild |
| * Lung | | Histiocytic Sarcoma | |
| * Lymph Node | Mandibular | Angiectasis | Moderate |
| | Mediastinal | Angiectasis | Mild |
| | Pancreatic | Histiocytic Sarcoma | |
| Note: HYPERPLASIA TGLs = 2-8 | | Hyperplasia | Moderate |
| Note: ANGIECTASIS TGLs = 2-8 | | | |
| [Hyperplasia TGLs = 7-3] | | | |
| Mesentery | Fat | Necrosis | Moderate |
| Note: NECROSIS TGLs = 3-22 | | | |
| * Pituitary Gland | Pars Distalis | Focal Cellular Change | Minimal |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Inflammation | Suppurative, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 748	TRT#: 25	SEX: Male	DAY ON TEST: 435
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A86037906

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Moderate
* Skin		Squamous Cell Papilloma	
Note: PAPILLOMA SQUA	TGLs = 1-21		
* Spleen		Histiocytic Sarcoma	
Note: [HISTIO SARC]	TGLs = 6		
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 749

TRT#: 25

SEX: Male

DAY ON TEST: 719

DOSE: 0.00700%CHLORINE

DISP: Natural Death

HISTO: A87043336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland Note: PHEOCHROM BGN TGLs = 8-21	Bilateral, Medulla	Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Moderate
* Intestine Large Note: EDEMA TGLs = 12-4	Cecum	Edema	Moderate
* Kidney Note: NEPHROPATHY TGLs = 9-5 Note: CYST TGLs = 10-5		Cyst Nephropathy	Moderate Marked
* Liver Note: DEGEN TGLs = 13-6 Note: ANGIECTASIS TGLs = 13-6 Note: [HYPERTROPHY] TGLs = 6.1	Biliar Tract Bile Duct	Angiectasis Degeneration Fibrosis Hyperplasia Hypertrophy Inflammation	Mild Cystic, Mild Mild Mild Focal, Moderate Focal, Minimal
* Lung Note: CONGESTION TGLs = 15-2	Mediastinum	Angiectasis Congestion Hyperplasia	Moderate Mild Macrophage, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 749

TRT#: 25

SEX: Male

DAY ON TEST: 719

DOSE: 0.00700%CHLORINE

DISP: Natural Death

HISTO: A87043336

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA * Lymph Node	TGLs = 15-2	Mandibular Mediastinal Mesenteric	Angiectasis Angiectasis Angiectasis	Moderate Moderate Mild
Note: ANGIECTASIS Note: ANGIECTASIS Note: ANGIECTASIS	TGLs = 11-5 TGLs = 14-3 TGLs = 1-8			
Mesentery		Fat	Inflammation Necrosis Fungus	Chronic, Mild Minimal Moderate
* Preputial Gland			Inflammation	Suppurative, Moderate
* Prostate			Inflammation	Suppurative, Mild
* Testes		Bilateral, Interstit Cell Germinal Epith	Adenoma Degeneration	Suppurative, Mild Marked
Note: DEGEN [Adenoma TGLS = 4-7]	TGLs = 5-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 750

TRT#: 25

SEX: Male

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Heart	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Brain		Compression	Mild
Note: COMPRESSION TGLs = 10-1			
* Kidney		Cyst	Mild
		Nephropathy	Moderate
Note: CYST TGLs = 5-5-1			
Note: NEPHROPATHY TGLs = 4-5			
* Liver		Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Focal, Minimal
		Dilatation	Moderate
* Mammary Gland			
Note: DILATATION TGLs = 1-8-1			
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pancreas	Acinar Cell	Adenoma	
Note: ADENOMA TGLs = 11-22			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 9-1			
Note: ANGIECTASIS TGLs = 9-1			
Note: ADENOMA TGLs = 9-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 750

TRT#: 25

SEX: Male

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043337

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Suppurative, Moderate
Note: INFLAMMATION	TGLs = 3-7-2		
* Skin	Epidermis	Hyperplasia	Moderate
	Sebaceous GI	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
Note: HYPERPLASIA	TGLs = 8-21		
Note: HYPERPLASIA	TGLs = 8-21		
Note: INFLAMMATION	TGLs = 8-21		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Perforation	Marked
	Forestomach	Ulcer	Marked
Note: PERFORATION	TGLs = 6-4-1		
Note: ULCER	TGLs = 6-4-1		
* Testes	Interstit Cell	Adenoma	
	Artery	Inflammation	Chronic, Mild
[Adenoma TGLS = 2-7-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 751

TRT#: 25

SEX: Male

DAY ON TEST: 719

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
* Islets, Pancreatic		Adenoma	
* Kidney		Cyst	Mild
		Nephropathy	Marked
Note: CYST TGLs = 9-5-1			
Note: NEPHROPATHY TGLs = 8-5			
* Liver	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB TGLs = 10-23			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 12-2			
Note: HYPERPLASIA TGLs = 17-25			
* Lymph Node	Renal	Angiectasis	Moderate
	Mandibular	Hyperplasia	Mild
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-7-3			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-8			
Mesentery		Inflammation	Chronic, Mild
* Nose		Fungus	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 751 **TRT#:** 25 **SEX:** Male **DAY ON TEST:** 719
DOSE: 0.00700%CHLORINE **DISP:** Moribund Sacrifice **HISTO:** A87043338

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Suppurative, Minimal
Note: ATROPHY	TGLs = 18-26	Atrophy	Focal, Minimal
* Pituitary Gland		Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 14-1		
Note: ADENOMA	TGLs = 14-1		
* Prostate		Inflammation	Suppurative, Moderate
Note: INFLAMMATION	TGLs = 15-7-1		
* Skin		Fibroma	
		Fibrosis	Mild
Note: FIBROMA	TGLs = 3-22		
Note: FIBROSIS	TGLs = 2-21		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6		
* Stomach		Edema	Mild
		Hyperplasia	Papillary, Moderate
		Leukemia Mononuclear	
* Testes		Adenoma	
[Adenoma TGLS = 5-7-2]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 752

TRT#: 25

SEX: Male

DAY ON TEST: 527

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
Mesentery		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Suppurative, Minimal
* Skin		Trichoepithelioma	
Note: TRICHOEPITHEL TGLs = 1-21			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
	Serosa	Mesothelioma Malignant	
Note: [MESOTHELIO MAL] TGLs = 7			
* Thyroid Gland	Follicle	Cyst	Minimal
Tissue NOS	Scrotal	Mesothelioma Malignant	
Urethra	Bulboureth GI	Dilatation	Moderate
Note: DILATATION TGLs = 7-23			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 752

TRT#: 25

SEX: Male

DAY ON TEST: 527

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043339

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 753

TRT#: 25

SEX: Male

DAY ON TEST: 639

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Angiectasis	Mild
	Cortex	Atrophy	Moderate
	Medulla	Atrophy	Moderate
Note: ATROPHY	TGLs = 6-10		
Note: ATROPHY	TGLs = 6-10		
* Kidney		Nephropathy	Mild
Note: NEPHROPATHY	TGLs = 7-5		
* Liver		Angiectasis	Mild
		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Focal, Minimal
* Lymph Node	Inguinal	Hyperplasia	Moderate
Note: HYPERPLASIA	TGLs = 9-8		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 8-1		
* Preputial Gland		Carcinoma	
		Inflammation	Suppurative, Mild
Note: CARCINOMA	TGLs = 1-21		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 753	TRT#: 25	SEX: Male	DAY ON TEST: 639
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043340

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia Inflammation	Focal, Mild Suppurative, Mild
Note: INFLAMMATION	TGLs = 3-7		
Note: HYPERPLASIA	TGLs = 3-7		
* Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL	TGLs = 5-6		
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 754

TRT#: 25

SEX: Male

DAY ON TEST: 719

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Epididymis	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Pancreas	* Seminal Vesicle	* Stomach - Forestomach	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
	Medulla	Pheochromocytoma Malignant	
Note: [PHEOCHROM MAL] TGLs = 10			
* Bone		Developmental Malformation	Marked
		Hyperostosis	Marked
	Cartilage	Hyperplasia	Marked
Note: DEVELOP MALFOR TGLs = 10-26			
Note: HYPEROSTOSIS TGLs = 10-26			
Note: HYPERPLASIA TGLs = 10-26			
* Bone Marrow		Myelofibrosis	Mild
* Brain		Compression	Mild
Note: COMPRESSION TGLs = 13-1-1			
Eye	Antr Chamber	Inflammation	Acute, Minimal
	Cornea	Inflammation	Acute, Minimal
Note: INFLAMMATION TGLs = 1-44			
Note: INFLAMMATION TGLs = 1-44			
* Islets, Pancreatic		Adenoma	
Note: ADENOMA TGLs = 16-27			
* Kidney		Cyst	Moderate
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 8-5-1			
Note: CYST TGLs = 7-24			
* Liver		Degeneration	Cystic, Minimal
	Biliar Tract	Fibrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 754

TRT#: 25

SEX: Male

DAY ON TEST: 719

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043341

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung	Bile Duct Alveolar Epith	Hyperplasia Hyperplasia Hyperplasia Dilatation	Minimal Mild Macrophage, Mild Moderate
* Mammary Gland Note: DILATATION TGLs = 15-8,3-22			
* Nose		Inflammation	Suppurative, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland Note: ADENOMA TGLs = 12-1	Pars Distalis	Adenoma Angiectasis	Moderate
* Preputial Gland		Hyperplasia Inflammation	Mild Suppurative, Mild
* Prostate		Inflammation	Suppurative, Marked
* Salivary Glands		Inflammation	Chronic, Mild
* Skin Note: HEMORRHAGE TGLs = 11-25 Note: KERATOACANTHOMA TGLs = 2-21	Subcut Tiss Subcut Tiss	Fibrosis Hemorrhage Keratoacanthoma	Mild Moderate
* Spleen Note: FIBROSIS TGLs = 6-23		Fibrosis Hyperplasia	Moderate Lymphoid, Histiocytic, Marked
* Stomach	Glandular, Mucosa Glandular, Mucosa	Degeneration Hyperplasia	Mild Mild
* Testes Note: DEGEN TGLs = 5-7 [Adenoma TGLS = 14-7,4-7]	Glandular Interstit Cell Germinal Epith	Mineralization Adenoma Degeneration	Mild Moderate
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 755

TRT#: 25

SEX: Male

DAY ON TEST: 668

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach - Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Focal Cellular Change Pheochromocytoma Benign Nephropathy	Minimal Marked
* Kidney Note: NEPHROPATHY TGLs = 3-5			
* Liver		Degeneration Focal Cellular Change	Cystic, Minimal Mild
	Bile Duct	Hyperplasia Inflammation	Mild Focal, Mild
* Mammary Gland Mesentery		Dilatation Inflammation	Mild Chronic, Moderate
	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 1-21			
* Pancreas	Acinar Cell	Adenoma Hyperplasia	Mild
* Parathyroid Gland Note: HYPERPLASIA TGLs = 4-3,5-3			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ADENOMA TGLs = 6-1 Note: ANGIECTASIS TGLs = 6-1			
* Preputial Gland		Inflammation	Suppurative, Minimal
* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Fibrosis Hematopoietic Cell Proliferation	Minimal Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 755	TRT#: 25	SEX: Male	DAY ON TEST: 668
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043342

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMA CELL PROL TGLs = 2-6			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Perforation	Marked
	Forestomach	Ulcer	Marked
Note: PERFORATION TGLs = 7-4			
Note: HYPERPLASIA TGLs = 8-4			
Note: INFLAMMATION TGLs = 8-4			
* Testes	Artery	Inflammation	Chronic, Mild
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Inflammation	Chronic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 765	TRT#: 25	SEX: Male	DAY ON TEST: 306
	DOSE: 0.00700%CHLORINE	DISP: Natural Death	HISTO: A86037911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Kidney
* Thyroid Gland			

OBSERVATIONS

* Brain		Glioma Malignant	
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Moderate
* Lymph Node	Mandibular	Angiectasis	Mild
	Mediastinal	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 1-8		
Note: ANGIECTASIS	TGLs = 2-3		
* Nose		Exudate	Marked
		Hemorrhage	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 246

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Compression	Minimal
Note: COMPRESSION	TGLs = 4-1		
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
Note: DILATATION	TGLs = 3-8		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 5-1		
Note: ADENOMA	TGLs = 5-1		
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 247

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
* Mammary Gland	Bile Duct	Hyperplasia	Minimal
		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Salivary Glands		Focal Cellular Change	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:23
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 248

TRT#: 3

SEX: Female

DAY ON TEST: 508

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Hypercellularity	Mild
		Myelofibrosis	Mild
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 5-5]			
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Minimal
		Focal Cellular Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	Mild
		Infiltration Cellular	Mixed Cell, Mild
[Hepatodiaphragmatic Nodule TGLS = 6-22]			
* Lymph Node	Mediastinal	Angiectasis	Mild
	Mesenteric	Angiectasis	Moderate
	Pancreatic	Angiectasis	Mild
	Mandibular	Hyperplasia	Mild
[Angiectasis TGLS = 8-3]			
[Angiectasis TGLS = 4-21]			
[Angiectasis TGLS = 7-5]			
[Hyperplasia TGLS = 1-8]			
* Mammary Gland		Dilatation	Mild
Mesentery		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 248	TRT#: 3	SEX: Female	DAY ON TEST: 508
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87043702

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Polyp Stromal	

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 249

TRT#: 3

SEX: Female

DAY ON TEST: 712

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Clitoral Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Focal Cellular Change	Mild
		Hematopoietic Cell Proliferation	Minimal
* Lymph Node	Mandibular	Hyperplasia	Mild
[Hyperplasia TGLS = 4-23]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 3-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
* Salivary Glands		Inflammation	Chronic, Marked
Zymbal's Gland		Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 250

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1-44]			
[Degeneration TGLS = 1-44]			
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Moderate
[Cyst TGLS = 3-7-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 251

TRT#: 3

SEX: Female

DAY ON TEST: 703

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node - Mandibular	* Salivary Glands
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OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 6-8,7-24			
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: ATROPHY TGLs = 12-6			
Note: HYPERPLASIA TGLs = 12-6			
Note: ANOM HEPAT LOB TGLs = 11-26			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
Note: [FIBROADENOMA] TGLs = 21-24			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 251	TRT#: 3	SEX: Female	DAY ON TEST: 703
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87043705

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA	TGLs = 14-1		
Note: ANGIECTASIS	TGLs = 14-1		
* Skin		Inflammation Ulcer	Chronic, Minimal Minimal
Note: INFLAMMATION	TGLs = 13-27		
Note: ULCER	TGLs = 13-27		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-6		
* Stomach		Forestomach, Mucosa Forestomach Forestomach	Papillary, Mild Chronic, Mild Mild
Note: HYPERPLASIA	TGLs = 15-4-1		
Note: ULCER	TGLs = 15-4-1		
* Thyroid Gland		Follicular Cel C Cell	Adenoma Degeneration Hyperplasia
* Uterus		Endometrium Endometrium	Cystic, Minimal Minimal Cystic, Minimal
Note: POLYP STROMAL	TGLs = 9-25		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 252

TRT#: 3

SEX: Female

DAY ON TEST: 668

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Clitoral Gland

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 2-5]			
* Liver		Fatty Change	Moderate
		Granuloma	Mild
		Infiltration Cellular	Mixed Cell, Mild
[Fatty Change TGLS = 3-6]			
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: [ADENOMA] TGLs = 1			
[Angiectasis TGLS = 5-1]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 253

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Heart	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Moderate
Note: ADENOMA	TGLs = 2-8-1		
Note: INFLAMMATION	TGLs = 2-8-1		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Dilatation	Moderate
Note: DILATATION	TGLs = 1-21		
* Pituitary Gland		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043708

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
* Lung	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Mild
* Bone Marrow		Hypercellularity	Minimal
Ear	Pinna	Schwannoma Nos	
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
* Liver		Basophilic Focus Congestion Granuloma	Mild Minimal
Note: CONGESTION TGLs = 7-22			
* Lymph Node	Mandibular	Hyperplasia	Moderate
Note: HYPERPLASIA TGLs = 6-8			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 2-8-1			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ADENOMA TGLs = 5-1			
Note: ANGIECTASIS TGLs = 5-1			
Tissue NOS	Oral	Squamous Cell Carcinoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 3

SEX: Female

DAY ON TEST: 620

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone Marrow	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node - Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone		Hyperostosis	Moderate
* Brain		Compression	Marked
[Compression TGLS = 10-1]			
* Clitoral Gland		Hyperplasia	Moderate
[Hyperplasia TGLS = 3-8-1]		Inflammation	Suppurative, Mild
[Inflammation TGLS = 3-8-1]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 7-5]			
* Liver		Fatty Change	Mild
		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Focal, Minimal
* Lymph Node	Mandibular	Hyperplasia	Minimal
Note: HYPERPLASIA TGLs = 2-8			
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-21]			
Mesentery		Inflammation	Chronic, Moderate
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 255	TRT#: 3	SEX: Female	DAY ON TEST: 620
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87043709

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 9-1]		Angiectasis	Moderate
[Angiectasis TGLS = 9-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 6-6]			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Perforation	Marked
	Forestomach	Ulcer	Marked
[Perforation TGLS = 11-4-1]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 256

TRT#: 3

SEX: Female

DAY ON TEST: 531

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 3-1]			
* Kidney		Nephropathy	Mild
* Liver		Granuloma	Mild
* Lymph Node	Mandibular	Angiectasis	Mild
[Angiectasis TGLS = 1-8]			
* Mammary Gland		Dilatation	Mild
Mesentery		Inflammation	Chronic, Mild
* Ovary	Follicle	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
* Thyroid Gland	Follicle	Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 257

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 3-8-1		
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 4-5		
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-21		
Note: DILATATION	TGLs = 1-8		
* Pituitary Gland		Adenoma	
	Pars Distalis	Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 5-1		
Note: ADENOMA	TGLs = 5-1		
* Uterus		Hyperplasia	Cystic, Minimal
	Endometrium		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 258 **TRT#:** 3 **SEX:** Female **DAY ON TEST:** 668
DOSE: VEHICLE CONTROL **DISP:** Moribund Sacrifice **HISTO:** A87043712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	Minimal
* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS TGLs = 1-21			
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 2-1			
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 3-1			
Note: ADENOMA TGLs = 3-1			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
		Ultimobranchial Cyst	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 259

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043713

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 - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Adenocarcinoma	
		Dilatation	Mild
		[Adenocarcinoma TGLS = 1-21]	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		[Adenoma TGLS = 2-1]	
		[Angiectasis TGLS = 2-1]	
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Mild
* Thyroid Gland		Degeneration	Cystic, Minimal
	Follicular Cel	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Clitoral Gland
* Intestine Large - Rectum
* Islets, Pancreatic
* Nose
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Adrenal Gland - Medulla
* Esophagus
* Intestine Small - Duodenum
* Lung
* Ovary
* Skin
* Thymus

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Pituitary Gland
* Stomach - Forestomach
* Trachea

OBSERVATIONS

* Bone
Note: HYPEROSTOSIS TGLs = 5-21
* Heart
* Kidney
Note: NEPHROPATHY TGLs = 3-5
* Liver

* Lymph Node
Note: ANGIECTASIS TGLs = 4-3
* Mammary Gland
Note: DILATATION TGLs = 1-8-1
Mesentery
* Pancreas
* Uterus
Vagina
Note: CYST TGLs = 2-7-1

Artery

Biliar Tract

Bile Duct
Mediastinal

Endometrium

Hyperostosis

Inflammation
Nephropathy

Fibrosis
Focal Cellular Change
Granuloma
Hyperplasia
Angiectasis

Dilatation

Infiltration Cellular
Atrophy
Hyperplasia
Cyst

Mild

Chronic, Moderate
Moderate

Minimal
Mild
Mild
Minimal
Mild

Mild

Lymphocyte, Mild
Focal, Minimal
Cystic, Minimal
Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 261

TRT#: 3

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Brain	* Esophagus
* Heart	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone		Hyperostosis	Minimal
[Hyperostosis TGLS = 5-22]			
* Bone Marrow		Hypercellularity	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Marked
[Adenoma TGLS = 1-8-1]			
[Inflammation TGLS = 1-8-1]			
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
* Lymph Node	Mediastinal	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 4-3-1			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 261

TRT#: 3

SEX: Female

DAY ON TEST: 730

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043715

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 262

TRT#: 3

SEX: Female

DAY ON TEST: 675

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87043716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Kidney	* Liver	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Brain

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
Eye		Cataract	Moderate
[Cataract TGLS = 7-44]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
* Uterus	Endometrium	Hemorrhage	Marked
	Endometrium	Hyperplasia	Cystic, Minimal
		Polyp Stromal	
[Hemorrhage TGLS = 3-7]			
[Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Skin
- * Thyroid Gland

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Spleen
- * Trachea

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Pituitary Gland
- * Stomach - Glandular
- * Urinary Bladder

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Ovary
- * Salivary Glands
- * Thymus

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Moderate
* Mammary Gland			
Note: DILATATION	TGLs = 1-8-1		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lung | * Lymph Node - Mandibular |
| * Lymph Node - Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach - Forestomach |
| * Stomach - Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------------|------------------------------------------------------------------------------|----------------------------------------|
| * Adrenal Gland | Bilateral, Medulla | Pheochromocytoma Benign | |
| Eye | Retina | Cataract
Degeneration | Moderate
Moderate |
| | [Cataract TGLS = 1-21] | | |
| | [Degeneration TGLS = 1-21] | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Biliar Tract | Fibrosis
Focal Cellular Change
Granuloma
Hepatodiaphragmatic Nodule | Minimal
Mild
Minimal
Moderate |
| | Bile Duct | Hyperplasia | Minimal |
| | [Focal Cellular Change TGLS = 3-23] | | |
| * Mammary Gland | | Dilatation | Mild |
| | [Dilatation TGLS = 2-8,2-22] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| Note: ADENOMA | TGLs = 5-1 | | |
| * Skin | | Abscess | Moderate |
| Note: ABSCESS | TGLs = 4-24 | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 265

TRT#: 3

SEX: Female

DAY ON TEST: 673

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8-1]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Vagina		Sarcoma	
[Sarcoma TGLS = 2-21]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 266

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Mild
* Mammary Gland	Bile Duct	Hyperplasia	Minimal
		Dilatation	Moderate
		Fibroadenoma	
Note: DILATATION TGLs = 2-22			
Note: FIBROADENOMA TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 3-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Stomach - Forestomach
- * Urinary Bladder

- * Bone
- * Esophagus
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach - Glandular

- * Bone Marrow
- * Heart
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Ovary
- * Skin
- * Thymus

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Pancreas
- * Spleen
- * Trachea

OBSERVATIONS

- * Adrenal Gland
- * Intestine Large
- * Kidney
- * Liver

- Medulla
- Rectum
- Biliar Tract
- Bile Duct
- Fat

- Pheochromocytoma Benign
- Parasite Metazoan
- Nephropathy
- Fibrosis
- Focal Cellular Change
- Granuloma
- Hyperplasia
- Necrosis
- Cyst
- Degeneration
- Hydrometra
- Hyperplasia
- Polyp Stromal

- Minimal
- Mild
- Minimal
- Mild
- Minimal
- Minimal
- Moderate
- Mild
- Cystic, Minimal
- Minimal
- Cystic, Mild

Mesentery
Note: NECROSIS TGLs = 2-21

- * Pituitary Gland
- * Thyroid Gland
- * Uterus

Note: POLYP STROMAL TGLs = 3-22

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:23
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 268 **TRT#:** 3 **SEX:** Female **DAY ON TEST:** 731
DOSE: VEHICLE CONTROL **DISP:** Terminal Sacrifice **HISTO:** A87043722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Brain		Compression	Mild
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolar Epith	Alveolar/Bronchiolar Adenoma	
		Hyperplasia	Mild
		Hyperplasia	Macrophage, Mild
Note: HYPERPLASIA	TGLs = 1-2		
Note: HYPERPLASIA	TGLs = 1-2		
Note: ALV BRON ADEN	TGLs = 1-2		
* Mammary Gland		Dilatation	Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Jejunum
- * Nose
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Islets, Pancreatic
- * Ovary
- * Skin
- * Thymus

- * Bone
- * Esophagus
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Pancreas
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Intestine Large
- * Kidney
- * Liver

Rectum

Biliar Tract

Bile Duct

Parasite Metazoan
Nephropathy
Fibrosis
Focal Cellular Change
Granuloma
Hepatodiaphragmatic Nodule
Hyperplasia

Mild
Mild
Mild
Mild
Mild
Mild
Mild

Note: ANOM HEPAT LOB TGLs = 3-21

- * Lung

Alveolar Epith

Hyperplasia
Hyperplasia
Dilatation

Minimal
Macrophage, Minimal
Mild

- * Mammary Gland

Note: DILATATION TGLs = 1-8

- * Pituitary Gland

Pars Distalis

Adenoma
Cyst

Mild

- * Uterus

Endometrium

Hemorrhage
Polyp Stromal

Moderate

Note: HEMORRHAGE TGLs = 2-7

Note: POLYP STROMAL TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS TGLs = 8-26			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-5]			
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	Moderate
Note: FOCAL CELL CH TGLs = 7-25			
[Hepatocellular Adenoma TGLS = 5-23]			
[Hepatodiaphragmatic Nodule TGLS = 6-24]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
Note: FIBROADENOMA TGLs = 3-22,2-21			
[Dilatation TGLS = 1-8-1]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Ovary
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Pancreas
- * Skin
- * Thymus
- * Uterus

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Pituitary Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- | | | |
|----------|----------------|---------|
| * Kidney | Mineralization | Minimal |
| | Nephropathy | Minimal |
| * Liver | Granuloma | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 95

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney	Mineralization	Minimal
* Uterus	Hydrometra	Minimal

Note: HYDROMETRA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney
* Liver	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Ovary
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Pancreas
- * Skin
- * Thymus
- * Uterus

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Pituitary Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

Harderian Gland

- Hyperplasia
- Hyperplasia
- Inflammation
- Metaplasia
- Necrosis
- Mineralization
- Granuloma

- Lymphoid, Mild
- Glandular, Mild
- Chronic, Mild
- Squamous, Mild
- Mild
- Mild
- Minimal

- * Kidney
- * Liver

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

Harderian Gland	Hyperplasia	Glandular, Mild
	Hyperplasia	Lymphoid, Mild
	Inflammation	Chronic, Mild
	Metaplasia	Squamous, Mild
	Necrosis	Mild
* Kidney	Mineralization	Minimal
* Liver	Granuloma	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 276

TRT#: 3

SEX: Female

DAY ON TEST: 457

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Minimal
Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Carcinoma	Solid
Note: CARCINOMA	TGLs = 1-21		
* Pituitary Gland		Angiectasis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate
Note: CYST	TGLs = 2-7		
Note: INFLAMMATION	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 277

TRT#: 3

SEX: Female

DAY ON TEST: 458

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Minimal
Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney		Mineralization	Minimal
* Liver		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
Note: CYST TGLs = 1-7			
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 3-1			
Note: ANGIECTASIS TGLs = 2-1			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 278

TRT#: 3

SEX: Female

DAY ON TEST: 459

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Pancreas		Atrophy	Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 3

SEX: Female

DAY ON TEST: 457

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Pancreas
- * Spleen
- * Trachea

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Stomach - Forestomach
- * Urinary Bladder

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach - Glandular

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Ovary
- * Skin
- * Thymus

OBSERVATIONS

- * Bone
- Harderian Gland
- * Kidney
- * Liver

- Hyperostosis
- Hyperplasia
- Nephropathy
- Focal Cellular Change
- Granuloma
- Hyperplasia
- Angiectasis
- Angiectasis
- Hyperplasia

- Mild
- Lymphoid, Mild
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal
- Mild
- Focal, Mild

- * Lymph Node
- * Pituitary Gland

- Bile Duct
- Mediastinal
- Pars Distalis

- Hyperplasia
- Polyp Stromal

- Minimal

Note: ANGIECTASIS TGLs = 2-1

- * Thyroid Gland
- * Uterus

- C Cell
- Endometrium

Note: POLYP STROMAL TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 280	TRT#: 3	SEX: Female	DAY ON TEST: 458
	DOSE: VEHICLE CONTROL	DISP: Scheduled Sacrifice	HISTO: A86037826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney		Mineralization	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Congestion	Minimal
[Congestion TGLS = 1-2]			
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Pituitary Gland		Angiectasis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 281

TRT#: 7

SEX: Female

DAY ON TEST: 519

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 3-1]			
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 1-5]			
* Liver		Granuloma	Minimal
* Lymph Node	Mediastinal	Angiectasis	Moderate
[Angiectasis TGLS = 2-21]	Renal	Angiectasis	Mild
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 5-8]			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]		Angiectasis	Marked
[Angiectasis TGLS = 4-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043751

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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 2-8			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: HEPATOCLR ADEN TGLs = 4-22			
Note: [GRANULOMA] TGLs = 6,22			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Angiectasis	Mild
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-8			
Note: ANGIECTASIS TGLs = 7-5			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 282

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043751

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS TGLs = 5-1

Note: ADENOMA TGLs = 5-1

* Spleen

Hyperplasia

Lymphoid, Histiocytic, Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 283

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Hyperplasia Inflammation	Moderate Suppurative, Mild
Note: HYPERPLASIA TGLs = 10-8			
Note: INFLAMMATION TGLs = 10-8			
* Kidney		Cyst Nephropathy	Marked Moderate
Note: CYST TGLs = 7-24,11-24			
* Liver	Biliar Tract	Fibrosis Granuloma Hepatodiaphragmatic Nodule	Mild Minimal Moderate
	Bile Duct	Hyperplasia	Mild
[Hyperplasia TGLS = 8-23]			
* Lymph Node	Mediastinal	Angiectasis Dilatation Fibroadenoma	Mild Mild Multiple
* Mammary Gland			
Note: DILATATION TGLs = 1-8			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
Note: ADENOMA TGLs = 9-1			
* Uterus	Endometrium Endometrium	Polyp Stromal Sarcoma Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 283

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043752

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SARC STROMAL TGLs = 4-7-1
Vagina

Cyst
Inflammation

Moderate
Suppurative, Moderate

Note: CYST TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 284

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 1-8			
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
[Leukemia Mononuclear TGLs = 5-21]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 6-1			
Note: ANGIECTASIS TGLs = 6-1			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 284

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043753

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Polyp Stromal

Note: POLYP STROMAL TGLs = 2-7-1
Vagina

Cyst

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 7

SEX: Female

DAY ON TEST: 712

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Bone
- * 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 - Mesenteric
- * Nose
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach - Forestomach
- * Stomach - Glandular
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Gland Cortex Focal Cellular Change Mild
- * Bone Marrow Leukemia Mononuclear
- * Brain Compression Moderate
 - Note: COMPRESSION TGLs = 12-1
- * Eye Cataract Moderate
 - Retina Degeneration Marked
 - Note: DEGEN TGLs = 1-21
 - Note: CATARACT TGLs = 1-21
- * Kidney Nephropathy Marked
 - Note: NEPHROPATHY TGLs = 6-5,7-5,8-24
- * Liver Centrilobular Mild
 - Congestion Mild
 - Biliar Tract Fibrosis Minimal
 - Granuloma Mild
 - Bile Duct Hyperplasia Minimal
 - Hyperplasia Multifocal, Mild
 - Leukemia Mononuclear
 - Note: LEUKEMIA MONUC TGLs = 9-6
 - [Leukemia Mononuclear TGLs = 9-6]
- * Lung Leukemia Mononuclear
- * Lymph Node Mandibular Leukemia Mononuclear
- * Mammary Gland Dilatation Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 285	TRT#: 7	SEX: Female	DAY ON TEST: 712
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043754

ORGAN AND ACCOUNTABLE SITE STATUS

		Fibroadenoma	
		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-22			
Note: DILATATION TGLs = 2-8-1			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 11-1			
Note: ADENOMA TGLs = 11-1			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 286

TRT#: 7

SEX: Female

DAY ON TEST: 722

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Clitoral Gland	* Lymph Node - Mandibular
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OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Brain		Compression	Moderate
[Compression TGLS = 6-1-1]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-5]			
* Liver		Fatty Change	Minimal
		Granuloma	Mild
		Hyperplasia	Multifocal, Mild
		Necrosis	Focal, Mild
[Necrosis TGLS = 7-23]			
* Lymph Node	Inguinal	Inflammation	Suppurative, Moderate
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
		Hyperplasia	Moderate
[Dilatation TGLS = 1-8-1]			
[Fibroadenoma TGLS = 3-22]			
[Hyperplasia TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 5-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 286	TRT#: 7	SEX: Female	DAY ON TEST: 722
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043755

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 5-1]

* Spleen	Hematopoietic Cell Proliferation	Moderate
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PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 287

TRT#: 7

SEX: Female

DAY ON TEST: 591

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
Vagina			

OBSERVATIONS

* Bone		Hyperostosis	Minimal
[Hyperostosis TGLS = 8-23]			
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-21]			
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Hematopoietic Cell Proliferation	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Mediastinal	Angiectasis	Mild
	Mandibular	Hyperplasia	Mild
[Angiectasis TGLS = 7-3]			
[Hyperplasia TGLS = 1-8]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-22]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 9-6]			
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 288

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone		Hyperostosis	Mild
* Kidney		Cyst	Mild
		Nephropathy	Marked
			[Cyst TGLS = 3-22]
			[Nephropathy TGLS = 2-5]
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Fibroadenoma	
* Mammary Gland			
			[Fibroadenoma TGLS = 1-21]
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 7

SEX: Female

DAY ON TEST: 620

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Cecum	Leukemia Mononuclear	
	Colon	Leukemia Mononuclear	
	Rectum	Leukemia Mononuclear	
* Intestine Small	Duodenum	Leukemia Mononuclear	
	Ileum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
Note: LEUKEMIA MONUC	TGLs = 10-6-1,11-6-1		
Note: HYPERPLASIA	TGLs = 11-6-1		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 16-2		
* Lymph Node	Axillary	Leukemia Mononuclear	
	Bronchial	Leukemia Mononuclear	
	Iliac	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 7

SEX: Female

DAY ON TEST: 620

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043758

ORGAN AND ACCOUNTABLE SITE STATUS

Mandibular	Leukemia Mononuclear
Mediastinal	Leukemia Mononuclear
Mesenteric	Leukemia Mononuclear
Pancreatic	Leukemia Mononuclear
Renal	Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 3-8

Note: LEUKEMIA MONUC TGLs = 8-24

Note: LEUKEMIA MONUC TGLs = 2-22

[Leukemia Mononuclear TGLS = 15-3]

[Leukemia Mononuclear TGLS = 4-23]

[Leukemia Mononuclear TGLS = 14-27]

[Leukemia Mononuclear TGLS = 12-25]

[Leukemia Mononuclear TGLS = 13-26]

* Mammary Gland

Dilatation

Mild

Mesentery

Leukemia Mononuclear

* Ovary

Leukemia Mononuclear

* Pancreas

Duct

Dilatation

Minimal

* Pituitary Gland

Cyst

Mild

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 17-1

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-6

* Stomach

Glandular

Leukemia Mononuclear

* Uterus

Leukemia Mononuclear

Vagina

Cyst

Mild

Note: CYST TGLs = 6-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 290

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 291

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Cortex	Hyperplasia	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA			
TGLs = 1-21			
Note: DILATATION			
TGLs = 2-8-1			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Histiocytic, Mild
* Uterus	Horn	Atrophy	Marked
Note: ATROPHY			
TGLs = 3-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 292

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Cyst	Mild
		Lipoma	
		Nephropathy	Mild
[Lipoma TGLS = 1-21]			
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 293

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
Note: DEGEN	TGLs = 1-21		
Note: CATARACT	TGLs = 1-21		
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 2-22		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 294

TRT#: 7

SEX: Female

DAY ON TEST: 508

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Atrophy	Moderate
		Hydronephrosis	Moderate
	Pelvis, Transit Epithe	Hyperplasia	Moderate
		Inflammation	Suppurative, Moderate
		Nephropathy	Marked
	[Hydronephrosis TGLS = 2-5]		
	[Nephropathy TGLS = 3-5]		
* Liver		Granuloma	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 295

TRT#: 7

SEX: Female

DAY ON TEST: 687

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
		[Cataract TGLS = 1-21]	
		[Degeneration TGLS = 1-21]	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Marked
		[Nephropathy TGLS = 3-5]	
* Liver		Fatty Change	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
* Mammary Gland		Dilatation	Mild
		[Dilatation TGLS = 2-8]	
Mesentery		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Note: ADENOMA TGLs = 5-1	
		[Adenoma TGLS = 5-1]	
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Marked
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Perforation	Marked
	Forestomach	Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 295	TRT#: 7	SEX: Female	DAY ON TEST: 687
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043764

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION TGLs = 4-4

[Hyperplasia TGLS = 4-4]

[Perforation TGLS = 4-4]

[Ulcer TGLS = 4-4]

* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 296

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 3-5			
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION TGLs = 1-8			
* Ovary	Follicle	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 4-1			
Note: ADENOMA TGLs = 4-1			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 2-21			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 297

TRT#: 7

SEX: Female

DAY ON TEST: 687

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Stomach - Forestomach

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Glioma Nos	
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Fibroadenoma	
* Mammary Gland			
	[Fibroadenoma TGLS = 1-21]		
* Pituitary Gland		Angiectasis	Minimal
	[Angiectasis TGLS = 3-1]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 298

TRT#: 7

SEX: Female

DAY ON TEST: 592

DOSE: 0.0200% CHLORAMI

DISP: Natural Death

HISTO: A87043767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS	TGLs = 6-22		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 7-1		
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
Note: LEUKEMIA MONUC	TGLs = 10-4		
Note: NECROSIS	TGLs = 1-21		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 298	TRT#: 7	SEX: Female	DAY ON TEST: 592
	DOSE: 0.0200% CHLORAMI	DISP: Natural Death	HISTO: A87043767

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 8-1		
Note: ADENOMA	TGLs = 8-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Mild
* Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 2-7-1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	Moderate
		Hyperplasia	Minimal
		Hyperplasia	Lymphoid, Histiocytic, Mild
		Inflammation	Focal, Mild
Note: ANOM HEPAT LOB	TGLs = 6-22,9-23		
Note: [GRANULOMA]	TGLs = 6,22,23		
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
Note: DILATATION	TGLs = 2-8		
Note: FIBROADENOMA	TGLs = 3-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 8-1		
Note: ANGIECTASIS	TGLs = 8-1		
* Uterus		Hydrometra	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 299

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043768

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Hyperplasia

Cystic, Mild

Note: HYDROMETRA TGLs = 4-7

Vagina

Cyst

Note: CYST TGLs = 5-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
Eye	Retina	Atrophy	Marked
		Degeneration	Marked
			[Atrophy TGLS = 1-21]
			[Degeneration TGLS = 1-21]
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Mild
		Granuloma	Moderate
* Lymph Node	Mediastinal	Angiectasis	Moderate
	Pancreatic	Angiectasis	Mild
			[Angiectasis TGLS = 9-7-1]
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
			[Adenoma TGLS = 6-1,7-1]
			[Angiectasis TGLS = 6-1,7-1]
* Skin	Subcut Tiss	Lipoma	
			[Lipoma TGLS = 3-23]
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Moderate
			Note: [HYPERPLASIA] TGLs = 6,24
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 301

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLS = 1-21]		
	[Degeneration TGLS = 1-21]		
* Kidney		Nephropathy	Marked
	[Nephropathy TGLS = 3-5]		
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 302

TRT#: 7

SEX: Female

DAY ON TEST: 690

DOSE: 0.0200% CHLORAMI

DISP: Natural Death

HISTO: A87043771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* 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	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland	Cortex	Adenoma	
Note: ADENOMA	TGLs = 2-10		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-1,5-1		
Note: HEMORRHAGE	TGLs = 4-1,5-1		
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
	Centrilobular	Necrosis	Mild
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
Mesentery		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:23
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 302

TRT#: 7

SEX: Female

DAY ON TEST: 690

DOSE: 0.0200% CHLORAMI

DISP: Natural Death

HISTO: A87043771

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 7

SEX: Female

DAY ON TEST: 703

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 4-1		
* Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-8		
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 5-5		
* Mammary Gland		Dilatation	Marked
Note: DILATATION	TGLs = 2-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 3-1		
Note: ADENOMA	TGLs = 3-1		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 7

SEX: Female

DAY ON TEST: 703

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043772

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 304

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 3-21]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-8-1			
* Pituitary Gland		Angiectasis	Minimal
Note: ANGIECTASIS TGLs = 4-1			
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild
Note: HYDROMETRA TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 7

SEX: Female

DAY ON TEST: 690

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Gland - Cortex | * Bone | * Bone Marrow | * Esophagus |
| * Heart | * 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 | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach - Forestomach | * Stomach - Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------------------|---------------|-------------------------|-----------------------|
| * Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| * Brain | | Compression | Moderate |
| Note: COMPRESSION TGLs = 4-1 | | | |
| * Clitoral Gland | | Inflammation | Suppurative, Moderate |
| [Inflammation TGLS = 1-8-1] | | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Fatty Change | Mild |
| | | Focal Cellular Change | Mild |
| | | Granuloma | Mild |
| | Bile Duct | Hyperplasia | Mild |
| * Mammary Gland | | Adenoma | |
| | | Dilatation | Moderate |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 2-21] | | | |
| [Hyperplasia TGLS = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| Note: ADENOMA TGLs = 3-1 | | | |
| [Adenoma TGLS = 3-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 306

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Ovary
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Pancreas
- * Skin
- * Thymus
- * Uterus

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Pituitary Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Kidney
- * Liver

Mineralization
Hepatodiaphragmatic Nodule

Minimal
Mild

Note: ANOM HEPAT LOB TGLs = 1-21

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 307

TRT#: 8

SEX: Female

DAY ON TEST: 95

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Trachea

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

OBSERVATIONS

Harderian Gland

Hyperplasia
Inflammation
Mineralization

Lymphoid, Minimal
Chronic, Minimal
Minimal

* Kidney

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 308

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

Eye	Hemorrhage	Marked
[Hemorrhage TGLS = 1-21]		
* Kidney	Mineralization	Minimal
* Liver	Granuloma	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 309

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

Harderian Gland	Acinus	Dilatation	Minimal
* Kidney		Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 310

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Ovary
* Skin
* Thymus
* Uterus

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Pancreas
* Spleen
* Thyroid Gland

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Pituitary Gland
* Stomach - Forestomach
* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney	Renal Tubule	Dilatation	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 7

SEX: Female

DAY ON TEST: 459

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Trachea

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Pituitary Gland
- * Stomach - Forestomach
- * Urinary Bladder

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Ovary
- * Salivary Glands
- * Stomach - Glandular
- * Uterus

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Skin
- * Thymus

OBSERVATIONS

- | | | | |
|-----------------|------------|----------------|-------------------|
| * Bone Marrow | | Myelofibrosis | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Granuloma | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lymph Node | Mesenteric | Hyperplasia | Histiocytic, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 312

TRT#: 7

SEX: Female

DAY ON TEST: 457

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 313

TRT#: 7

SEX: Female

DAY ON TEST: 458

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Cyst	Mild
	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 314 TRT#: 7 SEX: Female DAY ON TEST: 459
DOSE: 0.0200% CHLORAMI DISP: Scheduled Sacrifice HISTO: A86037892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 2-2]			
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Ovary	Periovarn Tiss	Cyst	Moderate
[Cyst TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 315

TRT#: 7

SEX: Female

DAY ON TEST: 457

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Inflammation	Suppurative, Mild
Note: INFLAMMATION TGLs = 2-8			
Eye		Cataract	Marked
	Retina	Degeneration	Marked
Note: DEGEN TGLs = 1-44			
[Cataract TGLS = 1-44]			
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Moderate
[Hepatodiaphragmatic Nodule TGLS = 4-21]			
* Lymph Node	Mediastinal	Angiectasis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Mild
[Hydrometra TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 11

SEX: Female

DAY ON TEST: 590

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain		Glioma Malignant	
Note: GLIOMA MAL	TGLs = 3-1,4-1		
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node	Mandibular	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 1-8		
* Mammary Gland		Dilatation	Mild
* Pancreas		Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 2-1		
Note: ADENOMA	TGLs = 2-1		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 317	TRT#: 11	SEX: Female	DAY ON TEST: 620
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node - Mandibular

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Inflammation	Suppurative, Minimal
[Inflammation TGLS = 1-8]			
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Mild
	Bile Duct	Hyperplasia	Minimal
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Uterus	Endometrium	Sarcoma Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 318

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Carcinoma	
* Bone Marrow		Hypercellularity	Mild
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
[Focal Cellular Change TGLS = 6-23]			
* Lymph Node	Mediastinal	Angiectasis	Mild
	Mesenteric	Angiectasis	Moderate
[Angiectasis TGLS = 3-5]			
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 4-8]			
* Pituitary Gland		Angiectasis	Mild
* Thymus		Cyst	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Adenoma	
Vagina		Cyst	Moderate
[Cyst TGLS = 5-22]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 319

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION TGLs = 1-8 [Dilatation TGLS = 2-21]			
* Pituitary Gland		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 5-1			
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 4-7 [Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Fibrosis	Mild
	Medulla	Hyperplasia	Minimal
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
Note: DILATATION	TGLs = 2-8		
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 11

SEX: Female

DAY ON TEST: 719

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign Hyperostosis	Mild Mild
* Bone Note: HYPEROSTOSIS TGLs = 6-22			
Eye Note: DEGEN TGLs = 1-44 Note: CATARACT TGLs = 1-44	Retina	Cataract Degeneration	Marked Moderate
* Kidney Note: NEPHROPATHY TGLs = 4-5		Nephropathy	Marked
* Liver	Biliar Tract Bile Duct	Fatty Change Fibrosis Granuloma Hyperplasia Dilatation Hyperplasia	Minimal Minimal Minimal Minimal Mild Mild
* Mammary Gland Note: DILATATION TGLs = 2-21 Note: HYPERPLASIA TGLs = 2-21			
Mesentery		Inflammation	Chronic, Moderate
* Pituitary Gland		Angiectasis	Mild
* Stomach	Forestomach, Mucosa Forestomach	Hyperplasia Inflammation	Papillary, Marked Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 321	TRT#: 11	SEX: Female	DAY ON TEST: 719
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043854

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach	Perforation	Marked
Forestomach	Ulcer	Marked

Note: PERFORATION TGLs = 7-4
Note: ULCER TGLs = 7-4
Note: INFLAMMATION TGLs = 7-4
Note: HYPERPLASIA TGLs = 7-4

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 322	TRT#: 11	SEX: Female	DAY ON TEST: 732
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Heart		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver		Cyst	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB TGLs = 3-23,4-24 [Leukemia Mononuclear TGLS = 2-22]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-21			
* Pituitary Gland		Angiectasis	Mild
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 323

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 2-8		
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Parathyroid Gland
* Stomach - Forestomach
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Salivary Glands
* Stomach - Glandular

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Nose
* Skin
* Thymus

* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Pancreas
* Spleen
* Trachea

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
* Lung		Carcinoma	Metastatic (Thyroid Gland), > Five (Thyroid Gland), Multiple (Thyroid Gland)
Note: CARCINOMA	TGLs = 3-2		
* Lymph Node	Mesenteric Mandibular	Angiectasis Carcinoma	Mild Metastatic (Thyroid Gland)
Note: ANGIECTASIS	TGLs = 2-5		
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 4-8		
* Ovary	Follicle	Cyst	Moderate
[Cyst TGLS = 1-7]			
* Pituitary Gland		Angiectasis	Minimal
* Thyroid Gland	C Cell	Carcinoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone		Hyperostosis	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Congestion	Mild
* Lung			
Note: CONGESTION	TGLs = 3-2		
* Lymph Node	Mandibular	Hyperplasia	Mild
* Mammary Gland		Dilatation	Mild
		Fibrosis	Mild
		Hyperplasia	Mild
		Angiectasis	Mild
* Pituitary Gland			
Note: ANGIECTASIS	TGLs = 4-1		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Vagina		Cyst	Mild
		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign Adenoma	
* Clitoral Gland			
[Adenoma TGLS = 1-8-1]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 7-5-1]			
* Liver		Focal Cellular Change Granuloma Hepatocellular Adenoma	Mild Mild
[Focal Cellular Change TGLS = 11-24]			
[Hepatocellular Adenoma TGLS = 8-23]			
* Lymph Node	Mediastinal Pancreatic	Angiectasis Angiectasis	Moderate Mild
[Angiectasis TGLS = 4-22]			
[Angiectasis TGLS = 9-3]			
* Mammary Gland		Dilatation Fibroadenoma	Mild
[Dilatation TGLS = 2-8]			
[Fibroadenoma TGLS = 3-21]			
* Pituitary Gland		Cyst	Mild
[Cyst TGLS = 10-1]			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Marked
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 326

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043859

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia
Inflammation

Cystic, Minimal
Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 327

TRT#: 11

SEX: Female

DAY ON TEST: 584

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Bilateral, Medulla	Degeneration Pheochromocytoma Benign	Moderate
Note: DEGEN TGLs = 9-10			
* Bone Marrow		Leukemia Mononuclear	
* Heart		Thrombosis	Moderate
Note: THROMBUS TGLs = 19-5			
* Intestine Small	Ileum Jejunum	Leukemia Mononuclear Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 15-4			
Note: LEUKEMIA MONUC TGLs = 14-28			
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 10-26			
* Liver	Centrilobular	Atrophy Fatty Change	Moderate Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	Moderate
		Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: FATTY CHANGE TGLs = 11-6-1			
Note: ANOM HEPAT LOB TGLs = 12-27			
Note: LEUKEMIA MONUC TGLs = 11-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Pancreatic	Angiectasis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 327

TRT#: 11

SEX: Female

DAY ON TEST: 584

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043860

ORGAN AND ACCOUNTABLE SITE STATUS

	Iliac	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 17-30		
Note: LEUKEMIA MONUC	TGLs = 2-21		
Note: LEUKEMIA MONUC	TGLs = 18-3		
Note: ANGIECTASIS	TGLs = 8-25		
Note: LEUKEMIA MONUC	TGLs = 8-25		
Note: LEUKEMIA MONUC	TGLs = 16-29		
	[Leukemia Mononuclear TGLS = 13-5]		
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-8		
Note: DILATATION	TGLs = 1-8		
	[Dilatation TGLS = 3-22]		
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 5-23		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Moderate
Note: LEUKEMIA MONUC	TGLs = 6-6		
Note: FIBROSIS	TGLs = 7-24		
Note: NECROSIS	TGLs = 7-24		
* Stomach	Forestomach	Edema	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 327

TRT#: 11

SEX: Female

DAY ON TEST: 584

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043860

ORGAN AND ACCOUNTABLE SITE STATUS

	Glandular	Edema	Mild
	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Mild
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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 - Mandibular	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Bone Marrow		Hypercellularity	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8-1]			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node	Inguinal	Hyperplasia	Moderate
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 2-21]			
* Ovary		Granulosa Cell Tumor Nos	
* Pituitary Gland		Angiectasis	Moderate
[Angiectasis TGLS = 5-1]			
* Spleen		Depletion Cellular	Mild
Note: DEPLETION TGLs = 4-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 11

SEX: Female

DAY ON TEST: 668

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043862

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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Mild
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 1-8-1		
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 4-6		
* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Sarcoma Stromal	
Note: SARC STROMAL	TGLs = 2-7-1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Granuloma	Minimal
		Hyperplasia	Minimal
Note: ANGIECTASIS TGLs = 4-6 [Hyperplasia TGLs = 5-22]			
* Lung		Alveolar/Bronchiolar Adenoma	
Note: ALV BRON ADEN TGLs = 3-2-1			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION TGLs = 2-8-1 Note: FIBROADENOMA TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 331

TRT#: 11

SEX: Female

DAY ON TEST: 731

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Clitoral Gland		Degeneration	Cystic, Mild
		Hyperplasia	Mild
[Degeneration TGLS = 2-8]			
[Hyperplasia TGLS = 2-8]			
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
Note: FOCAL CELL CH TGLs = 3-21			
Note: [GRANULOMA] TGLs = 6,21			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8-1]			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 332

TRT#: 11

SEX: Female

DAY ON TEST: 731

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone Marrow	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Hyperostosis	Mild
* Brain		Compression	Mild
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
Note: FOCAL CELL CH TGLs = 6-23			
Note: [GRANULOMA] TGLs = 6,23			
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
Note: [FIBROADENOMA] TGLs = 21,22			
Note: DILATATION TGLs = 7-8			
* Ovary	Periovarn Tiss	Cyst	
Note: CYST TGLs = 3-7-1			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA TGLs = 5-1			
Note: ANGIECTASIS TGLs = 5-1			
* Stomach	Forestomach	Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 332	TRT#: 11	SEX: Female	DAY ON TEST: 731
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043865

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST	TGLs = 8-4-1			
* Thyroid Gland		C Cell	Hyperplasia	Mild
* Uterus			Hydrometra	Mild
		Endometrium	Hyperplasia	Cystic, Mild
		Endometrium	Polyp Stromal	

Note: HYDROMETRA TGLs = 4-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 333

TRT#: 11

SEX: Female

DAY ON TEST: 605

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Mild
* Lymph Node	Mediastinal	Hyperplasia	Moderate
* Mammary Gland		Dilatation	Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
		[Hematopoietic Cell Proliferation TGLS = 4-6]	
* Stomach	Glandular, Mucosa	Hyperplasia	Mild
		Note: HYPERPLASIA TGLs = 5-4-1	
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
		[Hyperplasia TGLS = 3-22]	
		[Polyp Stromal TGLS = 2-22]	
Vagina		Sarcoma	
		[Sarcoma TGLS = 1-21]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 333

TRT#: 11

SEX: Female

DAY ON TEST: 605

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043866

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 334

TRT#: 11

SEX: Female

DAY ON TEST: 731

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Granuloma	Moderate
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 335 **TRT#:** 11 **SEX:** Female **DAY ON TEST:** 731
DOSE: 0.0100% CHLORAMI **DISP:** Terminal Sacrifice **HISTO:** A87043868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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 - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
Note: HYPERPLASIA TGLs = 1-8,5-8			
Note: INFLAMMATION TGLs = 1-8			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Moderate
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Lung		Carcinoma	Metastatic (Thyroid Gland), > Five (Thyroid Gland), Multiple (Thyroid Gland)
		Leukemia Mononuclear	
Note: CARCINOMA TGLs = 6-2			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION TGLs = 8-8			
Note: FIBROADENOMA TGLs = 2-21			
* Pituitary Gland		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 335	TRT#: 11	SEX: Female	DAY ON TEST: 731
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043868

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 3-6		Leukemia Mononuclear	
* Thyroid Gland Note: CARCINOMA TGLs = 7-3	C Cell	Carcinoma	
* Uterus Note: HYPERPLASIA TGLs = 9-7 Note: HYDROMETRA TGLs = 9-7	Endometrium	Hydrometra Hyperplasia	Mild Cystic, Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 336

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 7-6]			
* Lung		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	Multiple
Note: [FIBROADENOMA] TGLs = 21,22			
Note: DILATATION TGLs = 1-8			
* Pituitary Gland		Angiectasis	Marked
	Pars Distalis	Hyperplasia	Focal, Mild
Note: ANGIECTASIS TGLs = 8-1			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6			
* Thymus	Epithel Cell	Hyperplasia	Moderate
* Uterus	Endometrium	Histiocytic Sarcoma	
	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Inflammation	Suppurative, Moderate
	Endometrium	Polyp Stromal	
Note: HYPERPLASIA TGLs = 5-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 336

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043869

ORGAN AND ACCOUNTABLE SITE STATUS

Note: [POLYP STROMAL] TGLs = 7

Note: INFLAMMATION TGLs = 5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 337

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 1-21		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
Note: HYPERPLASIA	TGLs = 3-1		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus		Decidual Reaction	Moderate
	Endometrium	Deciduoma Nos	
Note: DECIDUAL REACT	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 11

SEX: Female

DAY ON TEST: 676

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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 - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 6-22		
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
Note: ANOM HEPAT LOB	TGLs = 3-21		
[Hepatodiaphragmatic Nodule	TGLS = 9-23]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Hyperplasia	Macrophage, Mild
		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-5		
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 8-1		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 338	TRT#: 11	SEX: Female	DAY ON TEST: 676
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043871

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 1-6			
* Thymus		Cyst	Mild
		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 339

TRT#: 11

SEX: Female

DAY ON TEST: 509

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Granuloma	Minimal
	Centrilobular	Necrosis	Mild
* Pancreas		Edema	Mild
Note: EDEMA	TGLs = 3-7		
* Spleen		Depletion Cellular	Minimal
Note: DEPLETION	TGLs = 4-6		
* Urinary Bladder		Hemorrhage	Moderate
[Hemorrhage TGLS = 1-8]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 340

TRT#: 11

SEX: Female

DAY ON TEST: 730

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Granuloma	Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate
[Cyst TGLS = 5-7-1,2-7-1]			
[Inflammation TGLS = 2-7-1]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 351 **TRT#:** 15 **SEX:** Female **DAY ON TEST:** 703
DOSE: 0.00500%CHLORAMI **DISP:** Moribund Sacrifice **HISTO:** A87043897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Moderate
	Bile Duct	Granuloma	Mild
		Hyperplasia	Minimal
		Necrosis	Focal, Mild
Note: FATTY CHANGE TGLs = 4-6			
* Lung		Hemorrhage	Mild
Note: HEMORRHAGE TGLs = 5-2			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21,2-22			
Note: DILATATION TGLs = 3-23			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA TGLs = 6-1			
Note: ANGIECTASIS TGLs = 6-1			
* Spleen		Hematopoietic Cell Proliferation	Moderate
Tongue		Hyperplasia	Squamous, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Intestine Large	Colon	Inflammation	Chronic, Marked
	Colon	Necrosis	Marked
	Colon	Perforation	Marked
Note: INFLAMMATION	TGLs = 2-4		
Note: NECROSIS	TGLs = 2-4		
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mesenteric	Angiectasis	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
Mesentery		Inflammation	Chronic, Moderate
* Spleen		Depletion Cellular	Mild
		Hematopoietic Cell Proliferation	Mild
Note: DEPLETION	TGLs = 4-6		
Tissue NOS	Abdominal	Hemorrhage	Marked
Note: HEMORRHAGE	TGLs = 3-22		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 353

TRT#: 15

SEX: Female

DAY ON TEST: 652

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043899

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla
* Intestine Large - Cecum
* Intestine Small - Ileum
* Parathyroid Gland

* Bone
* Intestine Large - Colon
* Intestine Small - Jejunum
* Skin

* Clitoral Gland
* Intestine Large - Rectum
* Islets, Pancreatic
* Trachea

* Esophagus
* Intestine Small - Duodenum
* Nose

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland

Cortex
Cortex

Congestion
Vacuolization Cytoplasmic

Mild
Moderate

Note: CONGESTION TGLs = 10-10

* Bone Marrow

Leukemia Mononuclear

* Brain

Leukemia Mononuclear

Eye

Cornea

Inflammation

Acute, Mild

Note: INFLAMMATION TGLs = 1-21

* Heart

Leukemia Mononuclear

* Kidney

Leukemia Mononuclear

Nephropathy

Minimal

* Liver

Centrilobular

Atrophy

Mild

Fatty Change

Marked

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 11-6

Note: FATTY CHANGE TGLs = 11-6

* Lung

Leukemia Mononuclear

* Lymph Node

Deep Cervical
Inguinal
Mandibular
Mediastinal
Mesenteric
Renal

Leukemia Mononuclear

Leukemia Mononuclear

Leukemia Mononuclear

Leukemia Mononuclear

Leukemia Mononuclear

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 14-26

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 353 **TRT#:** 15 **SEX:** Female **DAY ON TEST:** 652
DOSE: 0.00500%CHLORAMI **DISP:** Moribund Sacrifice **HISTO:** A87043899

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 3-8		
Note: LEUKEMIA MONUC	TGLs = 12-24		
Note: LEUKEMIA MONUC	TGLs = 13-25		
Note: LEUKEMIA MONUC	TGLs = 17-27		
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 2-8-1		
Mesentery		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 19-28		
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-23		
* Pituitary Gland		Angiectasis	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 16-1		
Note: ANGIECTASIS	TGLs = 16-1		
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
* Stomach		Forestomach	Basal Cell, Mild
		Forestomach	
		Glandular	
* Thyroid Gland		Leukemia Mononuclear	
Tissue NOS		Abdominal	
		Thoracic	
Note: LEUKEMIA MONUC	TGLs = 5-63		
Note: LEUKEMIA MONUC	TGLs = 4-62		
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
		Endometrium	
Note: POLYP STROMAL	TGLs = 8-22		
Note: LEUKEMIA MONUC	TGLs = 8-22,7-7		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 354 **TRT#:** 15 **SEX:** Female **DAY ON TEST:** 732
DOSE: 0.00500%CHLORAMI **DISP:** Terminal Sacrifice **HISTO:** A87043900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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 - Mandibular	* Lymph Node - Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Moderate
	[Adenoma TGLS = 1-21]		
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Note: ALV BRON ADEN TGLs = 3-2-1		
* Mammary Gland		Dilatation	Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Note: HEMA CELL PROL TGLs = 2-6		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 355

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Minimal
* Nose		Inflammation	Suppurative, Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 1-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 356

TRT#: 15

SEX: Female

DAY ON TEST: 641

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Hypercellularity	Moderate
* Kidney		Fibrosis	Moderate
		Inflammation	Suppurative, Mild
		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 4-21			
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Focal, Mild
Note: FATTY CHANGE TGLs = 5-6			
Note: ATROPHY TGLs = 5-6			
Note: HYPERPLASIA TGLs = 5-6			
[Hyperplasia TGLs = 5-6]			
* Lung		Hyperplasia	Macrophage, Mild
Note: HYPERPLASIA TGLs = 6-2			
* Lymph Node	Mediastinal	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 8-3			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 356	TRT#: 15	SEX: Female	DAY ON TEST: 641
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043902

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Dilatation TGLS = 1-8]		Dilatation	Mild
* Nose		Fungus Inflammation	Mild Suppurative, Mild
* Pituitary Gland Note: ANGIECTASIS TGLs = 7-1 Note: ADENOMA TGLs = 7-1	Pars Distalis	Adenoma Angiectasis	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus Vagina [Cyst TGLS = 2-7] [Inflammation TGLS = 2-7]	Endometrium	Hyperplasia Cyst Inflammation	Cystic, Minimal Moderate Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 357

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043903

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 - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Trachea
* Urinary Bladder			

MISSING

* Adrenal Gland - Medulla

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Congestion	Mild
		Fatty Change	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
Note: CONGESTION	TGLs = 7-6		
Note: FATTY CHANGE	TGLs = 8-22		
* Lung		Inflammation	Acute, Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-24]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 5-1		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Histiocytic, Mild
Note: HEMA CELL PROL	TGLs = 2-6		
* Thymus		Cyst	Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 357

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043903

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CARCINOMA TGLs = 3-3

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 358

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Brain		Compression	Mild
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Moderate
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hepatocellular Adenoma	
		Infiltration Cellular	Mixed Cell, Mild
[Angiectasis TGLS = 3-22]			
[Hepatocellular Adenoma TGLS = 4-23]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Note: ADENOMA TGLs = 5-1			
Note: ANGIECTASIS TGLs = 5-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 359 TRT#: 15 SEX: Female DAY ON TEST: 732
DOSE: 0.00500%CHLORAMI DISP: Terminal Sacrifice HISTO: A87043905

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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Brain		Compression	Mild
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change Granuloma Infiltration Cellular	Minimal Minimal Mixed Cell, Mild
* Mammary Gland		Dilatation Fibroadenoma	Mild
[Dilatation TGLS = 1-8] [Fibroadenoma TGLS = 2-21]			
Mesentery		Accessory Spleen	Mild
[Accessory Spleen TGLS = 6-22]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
[Adenoma TGLS = 5-1] [Angiectasis TGLS = 5-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 360

TRT#: 15

SEX: Female

DAY ON TEST: 626

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Granuloma	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Fibroadenoma	
* Mammary Gland			
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland		Angiectasis	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 2-7-1]			
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 361

TRT#: 15

SEX: Female

DAY ON TEST: 695

DOSE: 0.00500%CHLORAMI

DISP: Natural Death

HISTO: A87043907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Salivary Glands	* Skin
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Cortex	Necrosis	Mild
	Cortex	Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 2-8		
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2		
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION	TGLs = 1-8-1		
Note: FIBROADENOMA	TGLs = 3-21		
Mesentery		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 361	TRT#: 15	SEX: Female	DAY ON TEST: 695
	DOSE: 0.00500%CHLORAMI	DISP: Natural Death	HISTO: A87043907

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 6-22	Leukemia Mononuclear	
* Pancreas		Atrophy	Focal, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 7-1		
Note: ANGIECTASIS	TGLs = 7-1		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
* Stomach	Forestomach	Leukemia Mononuclear	
	Glandular	Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 362

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Granuloma	Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]		Angiectasis	Moderate
[Angiectasis TGLS = 2-1]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 363

TRT#: 15

SEX: Female

DAY ON TEST: 626

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043909

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Brain		Compression	Mild
* Clitoral Gland		Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Moderate
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
[Focal Cellular Change TGLS = 4-6]			
[Leukemia Mononuclear TGLS = 4-6]			
* Mammary Gland		Dilatation	Marked
		Fibroadenoma	
Note: DILATATION TGLs = 1-8-1			
Note: FIBROADENOMA TGLs = 2-21,3-22			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 6-1			
Note: ADENOMA TGLs = 6-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 363	TRT#: 15	SEX: Female	DAY ON TEST: 626
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043909

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 5-6		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 364

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043910

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Esophagus	* Heart
* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Adenoma	
	Medulla	Hyperplasia	Minimal
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
[Inflammation TGLS = 7-23]			
* Brain		Compression	Moderate
[Compression TGLS = 4-1-1]			
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 3-8-1]		Fibroadenoma	Multiple
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]		Angiectasis	Moderate
[Angiectasis TGLS = 5-1]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Vagina		Cyst	Mild
[Cyst TGLS = 6-7-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 364

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043910

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 365

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043911

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Hypercellularity	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-8]			
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 366

TRT#: 15

SEX: Female

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 6-1			
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8-1]			
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Minimal
		Granuloma	Mild
* Mammary Gland		Dilatation	Marked
[Dilatation TGLS = 4-23]		Fibroadenoma	Multiple
Mesentery		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 5-1		Angiectasis	Moderate
[Adenoma TGLS = 5-1]			
* Skin		Squamous Cell Papilloma	
Note: PAPILOMA SQUA TGLs = 7-24			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Perforation	Moderate
	Forestomach	Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 366	TRT#: 15	SEX: Female	DAY ON TEST: 730
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043912

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Endometrium	Hyperplasia	Cystic, Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 367

TRT#: 15

SEX: Female

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043913

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 3-1		
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: [GRANULOMA]	TGLs = 6,21,22		
Note: FOCAL CELL CH	TGLs = 5-22		
[Focal Cellular Change	TGLS = 5-22]		
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 4-1		
[Adenoma	TGLS = 4-1]		
* Spleen		Leukemia Mononuclear	
* Thymus		Cyst	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Sarcoma Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 15

SEX: Female

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043913

ORGAN AND ACCOUNTABLE SITE STATUS

Note: SARC STROMAL TGLs = 1-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 368

TRT#: 15

SEX: Female

DAY ON TEST: 299

DOSE: 0.00500%CHLORAMI

DISP: Natural Death

HISTO: A86037867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Mammary Gland
- * Parathyroid Gland
- * Stomach - Glandular
- * Uterus

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thymus

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Ovary
- * Skin
- * Thyroid Gland

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Pancreas
- * Spleen
- * Trachea

OBSERVATIONS

- | | | | |
|-------------------|----------------|-----------------------|---------------|
| * Brain | | Oligodendroglioma Nos | |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Fatty Change | Moderate |
| | | Granuloma | Moderate |
| * Lung | | Congestion | Mild |
| Mesentery | | Inflammation | Chronic, Mild |
| * Pituitary Gland | | Cyst | Minimal |
| * Stomach | Forestomach | Inflammation | Chronic, Mild |
| * Urinary Bladder | Transit Epithe | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 369

TRT#: 15

SEX: Female

DAY ON TEST: 719

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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 - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Mild
* Clitoral Gland		Adenoma	
		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 370

TRT#: 15

SEX: Female

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 1-8		
* Pituitary Gland		Angiectasis	Moderate
		Hyperplasia	Focal, Mild
	Pars Distalis		
Note: ANGIECTASIS	TGLs = 3-1		
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 371

TRT#: 15

SEX: Female

DAY ON TEST: 348

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A86037868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 372

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 5-1		
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Marked
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21,2-22		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 4-1		
Note: ADENOMA	TGLs = 4-1		
* Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 3-3		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 373

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland		Angiectasis	Mild
[Angiectasis TGLS = 2-1]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 374 TRT#: 15 SEX: Female DAY ON TEST: 732
DOSE: 0.00500%CHLORAMI DISP: Terminal Sacrifice HISTO: A87043918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-21]			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Thymus		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 375

TRT#: 15

SEX: Female

DAY ON TEST: 732

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043919

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Mild
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Marked
[Adenoma TGLS = 3-8]			
[Inflammation TGLS = 3-8]			
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Focal Cellular Change TGLS = 5-23]			
[Hepatocellular Adenoma TGLS = 4-22]			
* Mammary Gland		Adenocarcinoma	
		Dilatation	Mild
[Adenocarcinoma TGLS = 2-21]			
[Dilatation TGLS = 1-8]			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 375	TRT#: 15	SEX: Female	DAY ON TEST: 732
	DOSE: 0.00500%CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043919

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-1]

[Angiectasis TGLS = 6-1]

* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 386

TRT#: 19

SEX: Female

DAY ON TEST: 710

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus	Vagina		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 12-1			
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
[Hyperplasia TGLS = 2-8]			
[Inflammation TGLS = 2-8]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 6-5]			
* Liver		Fatty Change	Marked
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Moderate
Note: [GRANULOMA] TGLs = 6,23			
[Fatty Change TGLS = 7-6]			
[Hepatodiaphragmatic Nodule TGLS = 8-23]			
* Lymph Node	Mesenteric	Angiectasis	Mild
[Angiectasis TGLS = 9-5]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
Note: [FIBROADENOMA] TGLs = 21,22			
[Dilatation TGLS = 1-8-1]			
Mesentery		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 386	TRT#: 19	SEX: Female	DAY ON TEST: 710
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043800

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 10-4]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
Note: ADENOMA TGLs = 11-1			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Marked
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Minimal
	Forestomach	Ulcer	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* 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
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 3-7-1			
* Kidney		Nephropathy	Marked
* Liver	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-22			
Note: DILATATION TGLs = 1-21			
* Ovary	Follicle	Cyst	Marked
Note: CYST TGLs = 4-7			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Fibrosis	Moderate
		Hematopoietic Cell Proliferation	Mild
Note: FIBROSIS TGLs = 5-6			
Note: HEMA CELL PROL TGLs = 5-6			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 388

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lymph Node - Mandibular	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 389

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
* Mammary Gland		Dilatation	Mild
* Pituitary Gland		Angiectasis	Mild
[Angiectasis TGLS = 1-1]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 390

TRT#: 19

SEX: Female

DAY ON TEST: 383

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037856

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
* Lung	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Angiectasis	Mild
	Medulla	Angiectasis	Mild
* Bone Marrow		Myelofibrosis	Minimal
Harderian Gland		Hyperplasia	Lymphoid, Minimal
* Kidney		Mineralization	Mild
* Liver		Focal Cellular Change	Minimal
		Hepatodiaphragmatic Nodule	Moderate
		Inflammation	Focal, Mild
Note: ANOM HEPAT LOB TGLs = 4-22			
* Lymph Node	Mandibular	Hyperplasia	Mild
	Mediastinal	Hyperplasia	Lymphoid, Mild
	Mesenteric	Hyperplasia	Histiocytic, Mild
Note: HYPERPLASIA TGLs = 5-2			
Note: HYPERPLASIA TGLs = 2-8-1			
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21			
* Pituitary Gland		Angiectasis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tooth		Odontoma	
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild
Note: HYDROMETRA TGLs = 3-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 390

TRT#: 19

SEX: Female

DAY ON TEST: 383

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037856

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 391

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	Moderate
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 1-8-1]			
[Fibroadenoma TGLS = 1-8-1]			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Minimal
* Uterus		Adenocarcinoma	
	Endometrium	Polyp Stromal	
[Adenocarcinoma TGLS = 2-7]			
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 392

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-22,4-23]			
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
[Focal Cellular Change TGLS = 5-24]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-21]			
* Ovary	Follicle	Cyst	Mild
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 393

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Dilatation	Minimal
		Fibroadenoma	
		Atrophy	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Pituitary Gland		Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	
* Uterus		Adenoma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 394

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,23			
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	Multiple
Note: DILATATION TGLs = 1-8-1			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Vagina		Cyst	Mild
		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 395

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-8]			
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,21			
[Focal Cellular Change TGLS = 4-21]			
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland		Angiectasis	Mild
[Angiectasis TGLS = 3-1]			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Mild
* Stomach	Glandular, Mucosa	Cyst	Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 396

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Adenoma	
* Brain		Compression	Moderate
[Compression TGLS = 2-1]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 1-5]			
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 4-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 3-1]			
[Angiectasis TGLS = 3-1]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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 - Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland Note: ADENOMA TGLs = 4-10	Cortex	Adenoma	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland Note: DEGEN TGLs = 2-8		Degeneration	Cystic, Moderate
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Angiectasis	Mild
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 11-7			
* Mammary Gland Note: DILATATION TGLs = 10-8		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 9-1			
Note: ANGIECTASIS TGLs = 9-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 397	TRT#: 19	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043810

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hyperplasia Leukemia Mononuclear	Lymphoid, Histiocytic, Marked
Note: [HYPERPLASIA]	TGLs = 21-23		
Note: LEUKEMIA MONUC	TGLs = 5-21,6-22,7-23		
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 3-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 19

SEX: Female

DAY ON TEST: 718

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043811

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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-10		
Note: LEUKEMIA MONUC	TGLs = 4-10		
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-2		
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-8		
	[Leukemia Mononuclear TGLS = 7-22]		
	[Leukemia Mononuclear TGLS = 5-21]		
	[Leukemia Mononuclear TGLS = 10-23]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 398	TRT#: 19	SEX: Female	DAY ON TEST: 718
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043811

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland Note: DILATATION TGLs = 2-8		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Spleen Note: LEUKEMIA MONUC TGLs = 3-6		Leukemia Mononuclear	
* Stomach * Thymus Note: LEUKEMIA MONUC TGLs = 8-3	Forestomach, Mucosa	Hyperplasia Leukemia Mononuclear	Papillary, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 399

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	Eye
* Heart	* 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	* Nose
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
		Dilatation	Mild
* Mammary Gland			
[Dilatation TGLS = 1-8]			
* Ovary	Periovarn Tiss	Cyst	Mild
Note: CYST TGLs = 2-7			
* Pancreas	Acinar Cell	Adenoma	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 400

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
[Dilatation TGLS = 1-21]			
[Hyperplasia TGLS = 1-21]			
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
[Angiectasis TGLS = 2-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 401

TRT#: 19

SEX: Female

DAY ON TEST: 718

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Parathyroid Gland
- * Stomach - Glandular
- * Uterus

- * Clitoral Gland
- * Intestine Large - Rectum
- * Nose
- * Salivary Glands
- * Thyroid Gland

- * Esophagus
- * Intestine Small - Duodenum
- * Ovary
- * Skin
- * Trachea

- * Heart
- * Intestine Small - Ileum
- * Pancreas
- * Stomach - Forestomach
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Gland
Note: CONGESTION TGLs = 8-10
- * Bone
Note: HYPEROSTOSIS TGLs = 18-26
- * Bone Marrow
- * Brain
Note: COMPRESSION TGLs = 17-1
- * Intestine Large
- * Islets, Pancreatic
- * Kidney
Note: LEUKEMIA MONUC TGLs = 9-24
- * Liver
Note: LEUKEMIA MONUC TGLs = 11-6-1
- * Lung
Note: LEUKEMIA MONUC TGLs = 14-2
- * Lymph Node

- Cortex
- Cecum
- Centrilobular
- Biliar Tract
- Bile Duct
- Mediastinal
- Bronchial

- Congestion
- Hyperostosis
- Leukemia Mononuclear
- Compression
- Parasite Metazoan
- Adenoma
- Leukemia Mononuclear
- Nephropathy
- Atrophy
- Fatty Change
- Fibrosis
- Hyperplasia
- Hyperplasia
- Leukemia Mononuclear
- Leukemia Mononuclear
- Angiectasis
- Leukemia Mononuclear

- Mild
- Marked
- Moderate
- Mild
- Mild
- Mild
- Moderate
- Mild
- Moderate
- Mild
- Mild
- Moderate
- Multifocal, Mild
- Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 401

TRT#: 19

SEX: Female

DAY ON TEST: 718

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043814

ORGAN AND ACCOUNTABLE SITE STATUS

Mandibular	Leukemia Mononuclear
Mediastinal	Leukemia Mononuclear
Mesenteric	Leukemia Mononuclear
Pancreatic	Leukemia Mononuclear
Renal	Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 4-8
 [Leukemia Mononuclear TGLS = 12-5]
 [Leukemia Mononuclear TGLS = 15-3]
 [Leukemia Mononuclear TGLS = 13-25]
 [Leukemia Mononuclear TGLS = 10-7-1]
 [Leukemia Mononuclear TGLS = 15-3]

* Mammary Gland

Dilatation	Mild
Fibroadenoma	Multiple

Note: DILATATION TGLs = 2-8-1

* Pituitary Gland

Pars Distalis

Adenoma	
Angiectasis	Moderate

Note: ANGIECTASIS TGLs = 16-1

Note: ADENOMA TGLs = 16-1

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 7-6

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 402

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Minimal
* Kidney		Nephropathy	Mild
* Liver		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 2-1			
Note: ADENOMA TGLs = 2-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 403

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland Note: PHEOCHROM BGN TGLs = 5-10	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
Note: [GRANULOMA] TGLs = 6,21	Bile Duct	Hyperplasia	Minimal
* Mammary Gland Note: DILATATION TGLs = 1-8-1		Dilatation	Mild
* Ovary Note: CYST TGLs = 2-7-1	Follicle	Cyst	Marked
* Pituitary Gland Note: ADENOMA TGLs = 4-1 Note: ANGIECTASIS TGLs = 4-1	Pars Distalis	Adenoma Angiectasis	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 404

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Adenoma	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Minimal
* Mammary Gland			
Note: DILATATION	TGLs = 1-8		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
Note: ADENOMA	TGLs = 2-1		
Note: ANGIECTASIS	TGLs = 2-1		
* Thymus		Thymoma Benign	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:24
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 405

TRT#: 19

SEX: Female

DAY ON TEST: 554

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043818

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
* Nose	* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

Eye

OBSERVATIONS

* Adrenal Gland	Cortex Cortex Medulla	Congestion Leukemia Mononuclear Leukemia Mononuclear	Mild
Note: CONGESTION TGLs = 9-10			
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular Biliar Tract Bile Duct	Atrophy Fibrosis Hepatodiaphragmatic Nodule Hyperplasia Hyperplasia Leukemia Mononuclear	Mild Minimal Mild Mild Multifocal, Mild
Note: LEUKEMIA MONUC TGLs = 8-6			
Note: ANOM HEPAT LOB TGLs = 11-25			
* Lung		Leukemia Mononuclear	
* Lymph Node	Inguinal Inguinal Mandibular Mesenteric Pancreatic	Inflammation Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	Suppurative, Mild
Note: LEUKEMIA MONUC TGLs = 4-22			
Note: LEUKEMIA MONUC TGLs = 10-24			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 405

TRT#: 19

SEX: Female

DAY ON TEST: 554

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043818

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 7-23]

* Mammary Gland

Dilatation

Mild

Note: DILATATION TGLs = 3-8-1

Mesentery

Leukemia Mononuclear

* Ovary

Follicle

Cyst

Marked

Note: CYST TGLs = 5-7

Leukemia Mononuclear

* Pancreas

Atrophy

Focal, Mild

* Pituitary Gland

Cyst

Mild

Leukemia Mononuclear

* Skin

Inflammation

Chronic, Mild

Note: INFLAMMATION TGLs = 1-21

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 6-6

* Stomach

Glandular

Leukemia Mononuclear

* Thymus

Leukemia Mononuclear

* Uterus

Leukemia Mononuclear

Vagina

Cyst

Note: CYST TGLs = 12-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 406

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------------|---------------------------|-----------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - Medulla | * Bone | * Bone Marrow |
| * Esophagus | * Heart | * 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 |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach - Forestomach |
| * Stomach - Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---------------------|---------------|-----------------------|----------|
| * Brain | | Compression | Mild |
| Note: COMPRESSION | TGLs = 4-1 | | |
| * Clitoral Gland | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis | Mild |
| | | Focal Cellular Change | Mild |
| | | Granuloma | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Mild |
| * Mammary Gland | | | |
| Note: HYPERPLASIA | TGLs = 1-21 | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| Note: ANGIECTASIS | TGLs = 3-1 | | |
| Note: ADENOMA | TGLs = 3-1 | | |
| * Uterus | Endometrium | Polyp Stromal | |
| Note: POLYP STROMAL | TGLs = 2-7 | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 407

TRT#: 19

SEX: Female

DAY ON TEST: 668

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node - Mandibular

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Moderate
* Brain		Compression	Mild
* Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-21		
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Moderate
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION	TGLs = 6-8		
Note: FIBROADENOMA	TGLs = 2-22		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 5-1		
Note: ADENOMA	TGLs = 5-1		
* Spleen		Hematopoietic Cell Proliferation	Marked
Note: HEMA CELL PROL	TGLs = 3-6		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 407

TRT#: 19

SEX: Female

DAY ON TEST: 668

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043820

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 408

TRT#: 19

SEX: Female

DAY ON TEST: 605

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node - Mesenteric

OBSERVATIONS

* Adrenal Gland	Medulla	Hematopoietic Cell Proliferation	Minimal
Blood Vessel	Mesent Artery	Inflammation	Chronic, Marked
Note: INFLAMMATION	TGLs = 4-23,7-5,10-25		
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 9-6]			
* Lymph Node	Mediastinal	Angiectasis	Moderate
	Renal	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 8-24		
Note: ANGIECTASIS	TGLs = 11-3		
* Mammary Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-21		
Mesentery		Hemorrhage	Mild
		Inflammation	Chronic, Mild
Note: HEMORRHAGE	TGLs = 6-7		
Note: INFLAMMATION	TGLs = 6-7		
* Pituitary Gland		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 408

TRT#: 19

SEX: Female

DAY ON TEST: 605

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043821

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	Fibrosis	Moderate
	Hematopoietic Cell Proliferation	Marked
	Hemorrhage	Moderate
	Necrosis	Focal, Moderate
Note: NECROSIS TGLs = 3-22		
Note: HEMA CELL PROL TGLs = 2-6		
Note: HEMORRHAGE TGLs = 3-22		
* Thymus	Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 12-3		
* Uterus	Cyst	Mild
Note: CYST TGLs = 5-7-1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 409

TRT#: 19

SEX: Female

DAY ON TEST: 530

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Minimal
		Focal Cellular Change	Minimal
		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
* Pituitary Gland		Cyst	Mild
* Skin	Subcut Tiss	Fibrosarcoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 410

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------------|---------------------------|-----------------------------|
| * Adrenal Gland - Medulla | * 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 | * Lymph Node - Mandibular | * Lymph Node - Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach - Forestomach | * Stomach - Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|------------------------------------|----------------|----------------------------|------------------|
| * Adrenal Gland | Cortex | Focal Cellular Change | Mild |
| * Brain | | Compression | Minimal |
| Note: COMPRESSION TGLs = 7-1 | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis | Minimal |
| | | Focal Cellular Change | Minimal |
| | | Granuloma | Mild |
| | | Hepatodiaphragmatic Nodule | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Mild |
| Note: [GRANULOMA] TGLs = 6,21-23 | | | |
| [Fibrosis TGLS = 4-22] | | | |
| [Hyperplasia TGLS = 3-21] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| Note: HYPERPLASIA TGLs = 5-2 | | | |
| * Mammary Gland | | Dilatation | Mild |
| Note: DILATATION TGLs = 2-8-1 | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Mild |
| Note: ADENOMA TGLs = 6-1 | | | |
| Note: ANGIECTASIS TGLs = 6-1 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 410

TRT#: 19

SEX: Female

DAY ON TEST: 729

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043823

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 411

TRT#: 20

SEX: Female

DAY ON TEST: 93

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Trachea

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

OBSERVATIONS

Harderian Gland

Hyperplasia

Lymphoid, Minimal

* Kidney

Inflammation

Chronic, Minimal

Mineralization

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 412

TRT#: 20

SEX: Female

DAY ON TEST: 94

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Trachea

OBSERVATIONS

Harderian Gland

Hyperplasia
Inflammation
Metaplasia
Mineralization
Granuloma

Lymphoid, Mild
Chronic, Minimal
Squamous, Minimal
Minimal
Minimal

* Kidney

* Liver

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 413

TRT#: 20

SEX: Female

DAY ON TEST: 95

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lung
- * Nose
- * Pituitary Gland
- * Stomach - Forestomach
- * Trachea

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mandibular
- * Ovary
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Lymph Node - Mesenteric
- * Pancreas
- * Skin
- * Thymus
- * Uterus

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Liver
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

OBSERVATIONS

Harderian Gland

Acinus

- Dilatation
- Hyperplasia
- Hyperplasia
- Inflammation
- Necrosis
- Mineralization

- Mild
- Glandular, Mild
- Lymphoid, Mild
- Chronic, Minimal
- Minimal
- Minimal

* Kidney

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 414

TRT#: 20

SEX: Female

DAY ON TEST: 93

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Trachea

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

OBSERVATIONS

Harderian Gland

Acinus

Dilatation
Hyperplasia
Hyperplasia
Inflammation
Necrosis
Infiltration Cellular
Mineralization

Mild
Lymphoid, Mild
Glandular, Mild
Chronic, Mild
Minimal
Lymphocyte, Mild
Minimal

* Kidney

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 415

TRT#: 20

SEX: Female

DAY ON TEST: 95

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Trachea

OBSERVATIONS

Harderian Gland

Acinus

Dilatation
Hyperplasia
Inflammation
Necrosis
Mineralization
Granuloma
Hydrometra

Mild
Lymphoid, Minimal
Chronic, Minimal
Minimal
Mild
Minimal
Mild

* Kidney
* Liver
* Uterus

Note: HYDROMETRA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 416

TRT#: 19

SEX: Female

DAY ON TEST: 459

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - 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 | * Lung | * Lymph Node - Mandibular |
| * Lymph Node - Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach - Forestomach | * Stomach - Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------------------|---------------|----------------------------|----------------|
| * Adrenal Gland | Cortex | Angiectasis | Mild |
| * Kidney | | Mineralization | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Granuloma | Minimal |
| | | Hepatodiaphragmatic Nodule | Moderate |
| Note: ANOM HEPAT LOB TGLs = 3-22 | | | |
| * Lymph Node | Mediastinal | Angiectasis | Minimal |
| | Pancreatic | Angiectasis | Mild |
| Note: ANGIECTASIS TGLs = 2-21 | | | |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Focal, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 417

TRT#: 19

SEX: Female

DAY ON TEST: 458

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Granuloma	Mild
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Focal Cellular Change	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 418

TRT#: 19

SEX: Female

DAY ON TEST: 457

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

Harderian Gland	Acinus	Dilatation	Mild
* Kidney		Mineralization	Mild
		Nephropathy	Mild
* Liver		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Moderate
Note: ANOM HEPAT LOB TGLs = 2-22			
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Pituitary Gland		Angiectasis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 1-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 419

TRT#: 19

SEX: Female

DAY ON TEST: 458

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney		Mineralization	Mild
		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Focal Cellular Change	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Polyp Stromal	

[Polyp Stromal TGLS = 1-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 420

TRT#: 19

SEX: Female

DAY ON TEST: 459

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney		Mineralization	Mild
		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 421

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone		Hyperostosis	Mild
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 3-1-1			
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Mediastinal	Angiectasis	Mild
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8-1]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 4-1			
[Adenoma TGLS = 4-1]			
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 2-7-1]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 422

TRT#: 23

SEX: Female

DAY ON TEST: 451

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach
* Stomach - Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-10		
Note: LEUKEMIA MONUC	TGLs = 7-10		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 11-1		
* Kidney		Leukemia Mononuclear	
		Pigmentation	Moderate
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-6		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic, Focal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-2		
* Lymph Node	Axillary	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 422	TRT#: 23	SEX: Female	DAY ON TEST: 451
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A86037843

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-3 Note: LEUKEMIA MONUC TGLs = 3-8 [Leukemia Mononuclear TGLS = 4-22]		
* Mammary Gland	Dilatation	Minimal
Note: DILATATION TGLs = 2-8		
Mesentery	Leukemia Mononuclear	
* Ovary	Leukemia Mononuclear	
* Pituitary Gland	Angiectasis	Mild
	Leukemia Mononuclear	
* Skin	Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 1-21		
* Spleen	Fibrosis	Moderate
	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6 Note: FIBROSIS TGLs = 6-23		
* Thymus	Leukemia Mononuclear	
* Uterus	Endometrium	Cystic, Mild
	Hyperplasia	
	Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 423

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
		Dilatation	Mild
* Mammary Gland [Dilatation TGLS = 1-21]			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 424

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Nose
* Salivary Glands
* Thyroid Gland

* Bone
* Heart
* Intestine Small - Duodenum
* Lung
* Ovary
* Skin
* Trachea

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Pancreas
* Spleen
* Urinary Bladder

* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Parathyroid Gland
* Stomach - Glandular

OBSERVATIONS

* Adrenal Gland
* Clitoral Gland
* Kidney
* Liver

Cortex

Biliar Tract

Bile Duct

Focal Cellular Change
Hyperplasia
Nephropathy
Fibrosis
Focal Cellular Change
Granuloma
Hyperplasia
Infiltration Cellular

Mild
Minimal
Moderate
Minimal
Mild
Mild
Mild
Mixed Cell, Mild

Note: [GRANULOMA] TGLs = 6,22,23
[Focal Cellular Change TGLS = 6-23]

* Mammary Gland

Dilatation
Fibroadenoma
Hyperplasia

Mild
Multiple
Mild

[Dilatation TGLS = 1-8]
[Hyperplasia TGLS = 1-8]

* Pituitary Gland
* Stomach

Forestomach

Angiectasis
Squamous Cell Papilloma

Mild

Note: PAPILOMA SQUA TGLs = 7-4

* Thymus

Cyst

Moderate

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 3-7-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 425

TRT#: 23

SEX: Female

DAY ON TEST: 711

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 4-1-1			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Adenoma	Multiple
		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION TGLs = 6-8-1			
Note: FIBROADENOMA TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 5-1			
Note: ADENOMA TGLs = 5-1			
* Spleen		Hematopoietic Cell Proliferation	Mild
Note: HEMA CELL PROL TGLs = 2-6			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 426

TRT#: 23

SEX: Female

DAY ON TEST: 639

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Brain	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS TGLs = 3-22			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6 [Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21			
Mesentery		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 426

TRT#: 23

SEX: Female

DAY ON TEST: 639

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043948

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Atrophy	Focal, Moderate
* Spleen	Leukemia Mononuclear	
* Thymus	Leukemia Mononuclear	
Vagina	Leukemia Mononuclear	
	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 427

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
Note: ANGIECTASIS			
TGLs = 5-3			
* Mammary Gland		Dilatation	Mild
Note: DILATATION			
TGLs = 1-21			
* Ovary		Granulosa-Theca Tumor Malignant	
Note: GRAN THECA MAL			
TGLs = 2-7			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Moderate
* Thymus		Cyst	Mild
* Thyroid Gland	Follicular Cel	Carcinoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 428

TRT#: 23

SEX: Female

DAY ON TEST: 554

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Fibrosis	Moderate
[Fibrosis TGLS = 2-8]			
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
		Cyst	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 429

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - 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 | * Lung |
| * Lymph Node - Mandibular | * Lymph Node - Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------------------|-------------|-----------------------|--------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Focal Cellular Change | Mild |
| | | Granuloma | Mild |
| Note: [GRANULOMA] TGLs = 6,24 | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 3-8] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLS = 7-23] | | | |
| * Pituitary Gland | | Angiectasis | Mild |
| Note: ANGIECTASIS TGLs = 9-1 | | | |
| * Spleen | | Fibrosis | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Polyp Stromal | |
| [Polyp Stromal TGLS = 6-7-1,6-7-2] | | | |
| Vagina | | Cyst | Marked |
| [Cyst TGLS = 4-7,5-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 430

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 8-1-1		
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6-1		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-7-1		
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION	TGLs = 2-8		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 430	TRT#: 23	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0140% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043952

ORGAN AND ACCOUNTABLE SITE STATUS

Note: FIBROADENOMA TGLs = 3-22			
Mesentery		Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 7-1			
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6-1			
* Stomach	Glandular	Edema	Moderate
	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 431

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Compression	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,23 [Hyperplasia TGLS = 4-23]			
* Lymph Node	Mesenteric	Angiectasis	Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21			
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 2-22			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Note: ADENOMA TGLs = 3-1 Note: ANGIECTASIS TGLs = 3-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 432

TRT#: 23

SEX: Female

DAY ON TEST: 329

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A86037844

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	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
* Liver	Centrilobular	Atrophy	Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
Note: LEUKEMIA MONUC TGLs = 2-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
Spinal Cord		Hemorrhage	Marked
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-6			
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 433

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
* Mammary Gland		Fibroadenoma	Multiple
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Minimal
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 434

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043955

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 - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Liver	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Moderate
* Lymph Node	Mediastinal	Angiectasis	Moderate
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 435

TRT#: 23

SEX: Female

DAY ON TEST: 575

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Angiectasis	Mild
* Bone		Hyperostosis	Mild
* Bone Marrow		Hypercellularity	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Mild
[Hepatodiaphragmatic Nodule TGLS = 3-22]			
* Lung		Hyperplasia	Macrophage, Minimal
Note: HYPERPLASIA TGLs = 4-2			
* Lymph Node	Mandibular	Angiectasis	Mild
[Angiectasis TGLS = 1-8]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-21]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 436

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Esophagus
* Heart	* 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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Hypercellularity	Mild
* Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 1-8			
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Granuloma	Moderate
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
Note: ANOM HEPAT LOB TGLs = 4-23 [Fibrosis TGLS = 3-22]			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 5-1 Note: ADENOMA TGLs = 5-1			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Marked
Note: [HYPERPLASIA] TGLs = 6,21			
* Thyroid Gland	Follicle	Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 437

TRT#: 23

SEX: Female

DAY ON TEST: 593

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A87043958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lymph Node - Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Glioma Nos	
		Hemorrhage	Moderate
		Necrosis	Moderate
[Glioma Nos TGLS = 3-1,4-1]			
[Hemorrhage TGLS = 3-1,4-1]			
[Necrosis TGLS = 3-1,4-1]			
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
* Lung		Congestion	Moderate
[Congestion TGLS = 2-2]			
* Lymph Node	Mandibular	Angiectasis	Mild
[Angiectasis TGLS = 1-8]			
* Nose		Hemorrhage	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:24
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 438

TRT#: 23

SEX: Female

DAY ON TEST: 614

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Gland	Cortex	Angiectasis	Mild
* Heart		Osteosarcoma	Metastatic (Skin)
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,24			
Note: ANOM HEPAT LOB TGLs = 7-24			
* Lung		Osteosarcoma	Metastatic (Skin), > Five (Skin), Multiple (Skin)
Note: OSTEOSARC TGLs = 10-2			
* Lymph Node	Mediastinal	Angiectasis	Mild
	Renal	Angiectasis	Moderate
	Pancreatic	Hyperplasia	Lymphoid, Mild
Note: ANGIECTASIS TGLs = 8-25			
Note: HYPERPLASIA TGLs = 5-22			
Note: ANGIECTASIS TGLs = 9-3			
* Mammary Gland		Dilatation	Minimal
Note: DILATATION TGLs = 12-8			
* Ovary	Periovarn Tiss	Cyst	Moderate
Note: CYST TGLs = 11-7-1			
* Pituitary Gland		Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 438	TRT#: 23	SEX: Female	DAY ON TEST: 614
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043959

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Osteosarcoma	
Note: OSTEOSARC	TGLs = 3-26		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Cyst	Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 439

TRT#: 23

SEX: Female

DAY ON TEST: 690

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thymus
- * Uterus

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Ovary
- * Skin
- * Thyroid Gland

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Stomach - Forestomach
- * Trachea

- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Glandular
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Gland
- * Bone Marrow
- * Kidney
- * Liver

Cortex

- Angiectasis
- Leukemia Mononuclear
- Nephropathy
- Angiectasis
- Focal Cellular Change
- Granuloma
- Hyperplasia
- Leukemia Mononuclear

- Moderate
- Minimal
- Mild
- Minimal
- Minimal
- Minimal

Bile Duct

Note: [GRANULOMA] TGLs = 6,24,25

Note: ANGIECTASIS TGLs = 6-24

- * Mammary Gland

- Dilatation
- Fibroadenoma

Mild

Note: FIBROADENOMA TGLs = 2-22

Note: DILATATION TGLs = 1-21

- Mesentery

Fat

- Necrosis

Marked

Note: NECROSIS TGLs = 3-23

- * Pituitary Gland

Pars Distalis

- Adenoma
- Angiectasis

Moderate

Note: ADENOMA TGLs = 5-1

Note: ANGIECTASIS TGLs = 5-1

- * Spleen

- Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 439

TRT#: 23

SEX: Female

DAY ON TEST: 690

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043960

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 4-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 440

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Gland - Cortex | * Bone | * Brain | * Esophagus |
| * Heart | * 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 | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach - Forestomach | * Stomach - Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|----------------------------------|---------------|-----------------------|-----------------------|
| * Adrenal Gland | Medulla | Hyperplasia | Mild |
| * Bone Marrow | | Hypercellularity | Mild |
| * Clitoral Gland | | Adenoma | |
| | | Inflammation | Suppurative, Moderate |
| Note: ADENOMA TGLs = 1-21 | | | |
| Note: INFLAMMATION TGLs = 1-21 | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis | Minimal |
| | | Focal Cellular Change | Mild |
| | | Granuloma | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| Note: [GRANULOMA] TGLs = 22,23 | | | |
| [Hyperplasia TGLS = 6-22] | | | |
| * Mammary Gland | | Dilatation | Mild |
| Note: DILATATION TGLs = 8-8 | | | |
| * Pancreas | | Inflammation | Chronic, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Mild |
| | | Congestion | Marked |
| * Spleen | | | |
| Note: CONGESTION TGLs = 5-6 | | | |
| * Uterus | | Hydrometra | Moderate |
| | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 440

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043961

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Polyp Stromal

Multiple

Note: HYDROMETRA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 441

TRT#: 23

SEX: Female

DAY ON TEST: 675

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Minimal
* Bone		Hyperostosis	Moderate
[Hyperostosis TGLS = 3-21]			
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
Eye		Cataract	Moderate
	Retina	Degeneration	Marked
[Cataract TGLS = 1-22]			
[Degeneration TGLS = 1-22]			
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver		Fatty Change	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
Note: [GRANULOMA] TGLs = 6,23,24			
[Focal Cellular Change TGLS = 6-23]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 8-8			
Mesentery		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 441	TRT#: 23	SEX: Female	DAY ON TEST: 675
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043962

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Marked
	Glandular	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 442

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 2-8		
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
Note: [GRANULOMA]	TGLs = 6,22		
* Mammary Gland		Dilatation	Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Skin		Hyperplasia	Squamous, Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 443

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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 - Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone		Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland	Bilateral	Adenoma	
		Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			
* Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 3-2			
* Lymph Node	Mandibular	Hyperplasia	Mild
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 444

TRT#: 23

SEX: Female

DAY ON TEST: 732

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Nose
- * Skin
- * Thymus

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Lung
- * Ovary
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Parathyroid Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

* Islets, Pancreatic
Note: CARCINOMA TGLs = 3-22

- * Kidney
- * Liver

Carcinoma

- Nephropathy
- Focal Cellular Change
- Granuloma
- Hyperplasia

- Mild
- Mild
- Mild
- Minimal

Note: [GRANULOMA] TGLs = 6,23

- * Mammary Gland

Bile Duct

- Dilatation
- Fibroadenoma

Mild

[Dilatation TGLS = 1-8-1]

[Fibroadenoma TGLS = 2-21]

- * Pancreas
- * Pituitary Gland
- * Uterus

- Atrophy
- Angiectasis
- Hyperplasia

- Focal, Minimal
- Moderate
- Cystic, Mild

Endometrium

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 445

TRT#: 23

SEX: Female

DAY ON TEST: 596

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
Mesentery		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 2-7-1			
* Ovary	Periovarn Tiss	Cyst	Mild
Note: CYST TGLs = 1-7			
* Pancreas		Atrophy	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 456

TRT#: 27

SEX: Female

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 457

TRT#: 27

SEX: Female

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
Note: FOCAL CELL CH TGLs = 4-6			
* Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 5-3			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 2-8]			
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 458

TRT#: 27

SEX: Female

DAY ON TEST: 710

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Brain		Compression	Marked
Note: COMPRESSION	TGLs = 4-1		
* Eye		Atrophy	Marked
Note: ATROPHY	TGLs = 1-44		
* Kidney		Nephropathy	Moderate
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
Note: FATTY CHANGE	TGLs = 5-22		
Note: [GRANULOMA]	TGLs = 6,22		
[Fibrosis TGLs = 5-22]			
[Hyperplasia TGLs = 2-21]			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 3-1		
Note: ADENOMA	TGLs = 3-1		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 459

TRT#: 27

SEX: Female

DAY ON TEST: 514

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043994

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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Marked
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-21		
Note: LEUKEMIA MONUC	TGLs = 8-3		
* Mammary Gland		Dilatation	Minimal
Note: DILATATION	TGLs = 1-8		
* Pituitary Gland		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 7-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 459

TRT#: 27

SEX: Female

DAY ON TEST: 514

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043994

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen Note: LEUKEMIA MONUC TGLs = 5-6		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Deciduoma Nos	
	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 460

TRT#: 27

SEX: Female

DAY ON TEST: 722

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: ANOM HEPAT LOB TGLs = 5-24			
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 6-1			
Note: ADENOMA TGLs = 6-1			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Histiocytic, Mild
* Uterus		Hemorrhage	Marked
		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	Multiple
[Hemorrhage TGLS = 4-23]			
[Hydrometra TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 461

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Heart	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Urinary Bladder			

MISSING

* Thymus	* Thyroid Gland	* Trachea
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OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Mild
* Clitoral Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 3-5]			
* Liver	Biliar Tract	Fatty Change Fibrosis	Minimal Minimal
	Bile Duct	Focal Cellular Change Hyperplasia	Mild Minimal
* Mammary Gland		Dilatation Fibroadenoma	Mild
[Dilatation TGLS = 1-8-1]			
[Fibroadenoma TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 462

TRT#: 27

SEX: Female

DAY ON TEST: 508

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A86038835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Mild
		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Mandibular	Angiectasis	Moderate
	Inguinal	Hyperplasia	Mild
	Mandibular	Hyperplasia	Mild
* Ovary	Periovarn Tiss	Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 463

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Esophagus	* Heart
* 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	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thyroid Gland
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OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Hyperplasia Compression	Minimal Minimal Moderate
* Brain Note: COMPRESSION TGLs = 3-1			
* Clitoral Gland Note: ADENOMA TGLs = 1-8-1		Adenoma Inflammation	Suppurative, Mild
* Kidney		Nephropathy Fatty Change Focal Cellular Change Granuloma	Moderate Minimal Mild Minimal
* Liver	Bile Duct	Hyperplasia Hyperplasia Infiltration Cellular Dilatation	Minimal Multifocal, Mild Mixed Cell, Mild Mild
* Mammary Gland Note: DILATATION TGLs = 4-8			
* Pituitary Gland Note: ADENOMA TGLs = 2-1	Pars Distalis	Adenoma Angiectasis	Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 463

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043997

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 464

TRT#: 27

SEX: Female

DAY ON TEST: 376

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Minimal
* Liver		Fatty Change	Mild
		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Moderate
Note: ANOM HEPAT LOB TGLs = 3-22,4-23			
Note: [GRANULOMA] TGLs = 6,22,23			
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21			
* Pituitary Gland		Cyst	Mild
Vagina		Cyst	Moderate
Note: CYST TGLs = 2-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 465

TRT#: 27

SEX: Female

DAY ON TEST: 652

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|------------------------------|---------------------------|-----------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - Medulla | * 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 | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach - Forestomach |
| * Stomach - Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------|----------------------|----------------------|
| * Bone | | Hyperostosis | Minimal |
| Note: HYPEROSTOSIS TGLs = 8-22 | | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Centrilobular | Atrophy | Moderate |
| | | Fatty Change | Mild |
| | Biliar Tract | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Moderate |
| | Centrilobular | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 3-6,4-6 | | Necrosis | Mild |
| [Leukemia Mononuclear TGLs = 5-21] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Bronchial | Leukemia Mononuclear | |
| | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 6-3 | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Hyperplasia | Mild |
| Note: DILATATION TGLs = 1-8-1 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 465	TRT#: 27	SEX: Female	DAY ON TEST: 652
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043998

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
Note: ANGIECTASIS TGLs = 9-1 Note: ADENOMA TGLs = 9-1			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6-1			
* Uterus	Endometrium	Hydrometra Hyperplasia	Minimal Cystic, Mild
Note: HYPERPLASIA TGLs = 7-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 466

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,23,24 [Hyperplasia TGLS = 4-23,6-24]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
Note: DILATATION TGLs = 3-8-1			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 5-1 Note: ANGIECTASIS TGLs = 5-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 467

TRT#: 27

SEX: Female

DAY ON TEST: 494

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Metaplasia	Osseous, Mild
* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS	TGLs = 4-21		
* Brain		Compression	Mild
		Hydrocephalus	Mild
Note: COMPRESSION	TGLs = 6-1-1		
Note: HYDROCEPHALUS	TGLs = 5-1-1		
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 1-8-1		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Note: ANGIECTASIS	TGLs = 7-1		
Note: ADENOMA	TGLs = 7-1		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Marked
	Forestomach	Ulcer	Moderate
Note: ULCER	TGLs = 3-4,8-22,9-23		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 467	TRT#: 27	SEX: Female	DAY ON TEST: 494
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87044000

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION	TGLs = 3-4,8-22,9-23		
Note: HYPERPLASIA	TGLs = 3-4,8-22,9-23		
Vagina		Inflammation	Suppurative, Mild
Note: INFLAMMATION	TGLs = 2-7		

PRIMARY CAUSE OF DEATH -

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 468

TRT#: 27

SEX: Female

DAY ON TEST: 627

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Pancreas
* Spleen
* Thyroid Gland

* Adrenal Gland - Medulla
* Heart
* Intestine Small - Duodenum
* Lymph Node - Mandibular
* Parathyroid Gland
* Stomach - Forestomach
* Trachea

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mesenteric
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Ovary
* Skin
* Thymus

OBSERVATIONS

Blood Vessel
* Bone
 Note: HYPEROSTOSIS TGLs = 4-21
* Brain
 Note: COMPRESSION TGLs = 6-1
* Kidney
* Liver
* Lung
 Note: ALV BRON ADEN TGLs = 3-2
* Mammary Gland
 Note: DILATATION TGLs = 1-8-1
* Nose
* Pituitary Gland
 Note: ADENOMA TGLs = 5-1
 Note: ANGIECTASIS TGLs = 5-1
* Uterus

Mesent Artery

Bile Duct

Pars Distalis

Endometrium

Inflammation
Hyperostosis

Compression

Nephropathy
Granuloma
Hyperplasia
Alveolar/Bronchiolar Adenoma

Dilatation

Inflammation
Adenoma
Angiectasis

Hyperplasia

Chronic, Mild
Minimal

Marked

Moderate
Minimal
Minimal

Mild

Suppurative, Minimal
Marked

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 469

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Atrophy	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 1-8-1		
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 470

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,22 [Hyperplasia TGLS = 4-22,5-23,6-24]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 3-1 Note: ANGIECTASIS TGLs = 3-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate
Note: CYST TGLs = 2-7-1 Note: INFLAMMATION TGLs = 2-7-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 471

TRT#: 27

SEX: Female

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 8-1			
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY TGLs = 5-5			
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
Note: [GRANULOMA] TGLs = 6,22 [Hyperplasia TGLs = 9-22]			
* Lung		Alveolar/Bronchiolar Carcinoma	
Note: ALV BRON CARC TGLs = 6-2			
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
		Hyperplasia	Mild
Note: FIBROADENOMA TGLs = 2-21 Note: DILATATION TGLs = 1-8-1			
Mesentery		Inflammation	Chronic, Mild
* Ovary	Follicle	Cyst	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 471	TRT#: 27	SEX: Female	DAY ON TEST: 730
	DOSE: 0.00700%CHLORINE	DISP: Terminal Sacrifice	HISTO: A87044004

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST * Pituitary Gland	TGLs = 3-7	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ADENOMA Note: ANGIECTASIS	TGLs = 7-1 TGLs = 7-1			
* Stomach		Glandular Glandular	Inflammation Ulcer	Chronic, Moderate Moderate
* Uterus Vagina		Endometrium	Hyperplasia Cyst Inflammation	Cystic, Mild Mild Suppurative, Mild
Note: CYST Note: INFLAMMATION	TGLs = 4-7-1 TGLs = 4-7-1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 472

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Hyperostosis	Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,23 [Hyperplasia TGLS = 4-23]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION TGLs = 2-22 Note: FIBROADENOMA TGLs = 1-21			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 3-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 473

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Lymphoid, Histiocytic, Minimal
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 1-8		
Mesentery			
Note: NECROSIS	TGLs = 2-21		
* Fat		Necrosis	Mild
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 3-1		
Note: ANGIECTASIS	TGLs = 3-1		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina	Mucosa	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 474	TRT#: 27	SEX: Female	DAY ON TEST: 731
	DOSE: 0.00700%CHLORINE	DISP: Terminal Sacrifice	HISTO: A87044007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,21 [Hyperplasia TGLS = 1-21]			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 475

TRT#: 27

SEX: Female

DAY ON TEST: 731

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
[Fibrosis TGLS = 5-23]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION TGLs = 1-8			
Note: FIBROADENOMA TGLs = 2-21			
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-7			
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 476

TRT#: 27

SEX: Female

DAY ON TEST: 710

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Brain		Mineralization	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fatty Change	Mild
		Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Granuloma	Minimal
		Hyperplasia	Minimal
[Hyperplasia TGLS = 7-22]			
* Lung		Foreign Body	Minimal
		Inflammation	Pyogranulomat, Mild
Note: INFLAMMATION TGLs = 4-2-1			
* Mammary Gland		Dilatation	Minimal
Pharynx	Palate	Squamous Cell Papilloma	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA TGLs = 5-1			
Note: ANGIECTASIS TGLs = 5-1			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 477

TRT#: 27

SEX: Female

DAY ON TEST: 722

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Degeneration	Cystic, Mild
Note: DEGEN TGLs = 1-8			
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Marked
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 10-5			
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 11-1			
Note: ADENOMA TGLs = 11-1			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-6			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 477	TRT#: 27	SEX: Female	DAY ON TEST: 722
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87044010

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach Note: NECROSIS TGLs = 12-4-1	Glandular	Necrosis	Mild
* Thymus		Leukemia Mononuclear	
* Uterus Note: POLYP STROMAL TGLs = 5-21,6-21 Vagina Note: INFLAMMATION TGLs = 4-7-1 Note: CYST TGLs = 4-7-1	Endometrium Endometrium	Hyperplasia Leukemia Mononuclear Polyp Stromal Cyst Inflammation	Cystic, Moderate Mild Suppurative, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 478

TRT#: 27

SEX: Female

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044011

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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Pheochromocytoma Benign	
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 3-1-1		
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 5-22]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
Note: DILATATION	TGLs = 2-8		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 4-1		
Note: ANGIECTASIS	TGLs = 4-1		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 479

TRT#: 27

SEX: Female

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Esophagus
* Heart	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Moderate
Note: ADENOMA TGLs = 2-22			
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
Note: [GRANULOMA] TGLs = 6,23 [Hyperplasia TGLS = 3-23]			
* Mammary Gland		Dilatation	Mild
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 480

TRT#: 27

SEX: Female

DAY ON TEST: 730

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Esophagus	* Heart
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Hypercellularity	Moderate
* Brain		Compression	Moderate
Note: COMPRESSION TGLs = 6-1			
* Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 3-23			
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,24			
[Hyperplasia TGLS = 7-24]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
* Ovary	Follicle	Cyst	Moderate
Note: CYST TGLs = 4-7			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Note: ADENOMA TGLs = 5-1			
Note: ANGIECTASIS TGLs = 5-1			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 480	TRT#: 27	SEX: Female	DAY ON TEST: 730
	DOSE: 0.00700%CHLORINE	DISP: Terminal Sacrifice	HISTO: A87044013

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 766

TRT#: 3

SEX: Female

DAY ON TEST: 702

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Moderate
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mandibular	Hyperplasia	Lymphoid, Mild
* Pituitary Gland		Angiectasis	Mild
* Skin		Squamous Cell Carcinoma	
	[Squamous Cell Carcinoma TGLS = 1-21]		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 767

TRT#: 3

SEX: Female

DAY ON TEST: 650

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node - Mesenteric

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 2-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
* Nose	Glands	Carcinoma	
		Fungus	Mild
		Inflammation	Suppurative, Mild
* Ovary	Follicle	Cyst	Minimal
* Pituitary Gland		Cyst	Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-6			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 767

TRT#: 3

SEX: Female

DAY ON TEST: 650

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043726

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 768

TRT#: 3

SEX: Female

DAY ON TEST: 569

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87043727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Congestion	Mild
		Fatty Change	Moderate
		Focal Cellular Change	Minimal
		Granuloma	Minimal
* Lung		Foreign Body	Moderate
		Inflammation	Pyogranulomat, Moderate
* Lymph Node	Mandibular	Angiectasis	Minimal
[Angiectasis TGLS = 2-8]			
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 1-8]			
Mesentery		Inflammation	Chronic, Mild
* Nose		Foreign Body	Marked
		Fungus	Moderate
		Inflammation	Suppurative, Marked
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]		Angiectasis	Mild
[Angiectasis TGLS = 3-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 769

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043728

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 - Duodenum | * Intestine Small - Ileum | * Intestine Small - Jejunum |
| * Islets, Pancreatic | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach - Forestomach | * Stomach - Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|-----------------------------------------|-------------------|------------------------------------------------------------------|-------------------------------|
| * Adrenal Gland | Cortex
Medulla | Focal Cellular Change
Lymphoma Malignant Lymphocytic | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis
Focal Cellular Change
Granuloma | Minimal
Minimal
Minimal |
| | Bile Duct | Hyperplasia
Lymphoma Malignant Lymphocytic | Minimal |
| * Lung | | Lymphoma Malignant Lymphocytic | |
| * Lymph Node | Mesenteric | Lymphoma Malignant Lymphocytic
Lymphoma Malignant Lymphocytic | |
| * Mammary Gland | | Fibroadenoma | |
| Note: [FIBROADENOMA] TGLs = 1-21,2-22 | | | |
| * Nose | | Lymphoma Malignant Lymphocytic | |
| * Pancreas | | Atrophy | Focal, Minimal |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| Note: [HYPERPLASIA] TGLs = 3-1 | | | |
| Note: [ANGIECTASIS] TGLs = 3-1 | | | |
| Testes | Interstit Cell | Hyperplasia | Mild |
| Note: [ADENOMA] TGLs = 4-7 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 769

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043728

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Adenoma

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 770

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Nose
- * Spleen
- * Trachea

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Ovary
- * Stomach - Glandular
- * Urinary Bladder

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Parathyroid Gland
- * Thymus
- * Uterus

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Salivary Glands
- * Thyroid Gland

OBSERVATIONS

- * Brain
 - Note: COMPRESSION TGLs = 5-1
- * Kidney
- * Liver
 - Note: [HYPERPLASIA] TGLs = 6,22
 - [Fibrosis TGLS = 3-22]
 - [Hyperplasia TGLS = 3-22]
- * Lung
- * Mammary Gland
 - [Dilatation TGLS = 2-8]
- * Pancreas
- * Pituitary Gland
 - Note: ADENOMA TGLs = 4-1
- * Skin
 - [Inflammation TGLS = 1-21]
- * Stomach

- Biliar Tract
- Bile Duct
- Pars Distalis
- Forestomach
- Forestomach, Mucosa

- Compression Moderate
- Nephropathy Mild
- Fatty Change Moderate
- Fibrosis Mild
- Fibrosis Focal, Moderate
- Hyperplasia Mild
- Hyperplasia Lymphoid, Histiocytic, Moderate
- Hyperplasia Macrophage, Mild
- Dilatation Mild
- Atrophy Focal, Minimal
- Adenoma Mild
- Angiectasis Mild
- Inflammation Chronic, Mild
- Erosion Minimal
- Hyperplasia Papillary, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 770

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043729

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach

Inflammation

Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 771

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043730

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 - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Marked
	Medulla	Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Moderate
		Focal Cellular Change	Mild
		Granuloma	Mild
[Angiectasis TGLS = 5-22]			
* Mammary Gland		Dilatation	Minimal
[Dilatation TGLS = 2-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
* Skin		Inflammation	Chronic, Mild
		Ulcer	Mild
[Inflammation TGLS = 1-21]			
[Ulcer TGLS = 1-21]			
Tongue		Squamous Cell Papilloma	
Note: PAPILOMA SQUA TGLs = 6-23			
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 4-7]			
Vagina		Cyst	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 771

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043730

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 3-7-1

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 772

TRT#: 3

SEX: Female

DAY ON TEST: 667

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Minimal
		Fibroadenoma	
* Mammary Gland			
Note: FIBROADENOMA TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 773

TRT#: 3

SEX: Female

DAY ON TEST: 578

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87043732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Mineralization	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 4-22]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
* Pituitary Gland		Angiectasis	Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 2-7-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 773

TRT#: 3

SEX: Female

DAY ON TEST: 578

DOSE: VEHICLE CONTROL

DISP: Natural Death

HISTO: A87043732

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 774

TRT#: 3

SEX: Female

DAY ON TEST: 639

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Minimal
* Lymph Node	Mesenteric	Angiectasis	Mild
	Mandibular	Hyperplasia	Moderate
[Hyperplasia TGLS = 2-8]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 6-1			
[Adenoma TGLS = 6-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	C Cell	Adenoma	
Note: ADENOMA TGLs = 4-3			
Tooth		Dysplasia	Marked
		Inflammation	Suppurative, Marked
Note: INFLAMMATION TGLs = 5-9-1,7-9			
[Inflammation TGLS = 5-9-1,7-9]			
* Uterus	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 774

TRT#: 3

SEX: Female

DAY ON TEST: 639

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043733

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 775

TRT#: 3

SEX: Female

DAY ON TEST: 472

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Small - Duodenum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Cecum	Leukemia Mononuclear	
	Colon	Leukemia Mononuclear	
	Rectum	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-26		
Note: LEUKEMIA MONUC	TGLs = 9-26		
Note: LEUKEMIA MONUC	TGLs = 9-26		
* Intestine Small	Ileum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-26		
Note: LEUKEMIA MONUC	TGLs = 10-26		
* Kidney	Renal Tubule	Mineralization	Minimal
	Centrilobular	Vacuolization Cytoplasmic	Mild
* Liver		Atrophy	Mild
		Fatty Change	Marked
	Biliar Tract	Fibrosis	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB	TGLs = 6-23		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 775

TRT#: 3

SEX: Female

DAY ON TEST: 472

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043734

ORGAN AND ACCOUNTABLE SITE STATUS

	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-5		
Note: LEUKEMIA MONUC	TGLs = 3-21		
Note: LEUKEMIA MONUC	TGLs = 11-24		
	[Leukemia Mononuclear TGLS = 12-3]		
* Mammary Gland		Dilatation	Mild
Mesentery		Accessory Spleen	
		Leukemia Mononuclear	
Note: ACCESSORY SPLN	TGLs = 4-22		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Stomach	Glandular	Erosion	Mild
	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Ulcer	Moderate
Note: EROSION	TGLs = 14-27		
Note: INFLAMMATION	TGLs = 14-27		
Note: ULCER	TGLs = 8-4-1,13-4		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 776

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Clitoral Gland		Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21			
Note: DILATATION TGLs = 2-8-1			
* Pituitary Gland	Pars Distalis	Adenoma	
Vagina		Cyst	Mild
Note: CYST TGLs = 3-7-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 777

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - 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 | * Islets, Pancreatic | * Kidney | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach - Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|----------------------------------|---------------------|----------------------------|----------------------|
| * Clitoral Gland | | Inflammation | Suppurative, Minimal |
| * Liver | Biliar Tract | Fibrosis | Minimal |
| | | Focal Cellular Change | Mild |
| | | Hepatodiaphragmatic Nodule | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| Note: ANOM HEPAT LOB TGLs = 3-22 | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| Note: FIBROADENOMA TGLs = 1-21 | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| Note: ANGIECTASIS TGLs = 4-1 | | | |
| Note: ADENOMA TGLs = 4-1 | | | |
| * Spleen | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC TGLs = 2-6 | | | |
| * Stomach | Forestomach, Mucosa | Hyperplasia | Papillary, Minimal |
| * Thymus | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 777

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043736

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 778

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone Marrow	* Esophagus
* Heart	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 5-22		
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 6-1		
* Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8,2-21		
* Kidney		Nephropathy	Moderate
* Liver		Congestion	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 4-6]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 3-8-1	Hyperplasia	Mild
* Pituitary Gland		Adenoma	
Note: ADENOMA	TGLs = 7-1	Angiectasis	Marked
Note: ANGIECTASIS	TGLs = 7-1		
Vagina		Cyst	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 778

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043737

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Suppurative, Marked

Note: CYST TGLs = 8-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 779

TRT#: 3

SEX: Female

DAY ON TEST: 721

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* 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 - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Pheochromocytoma Benign	
* Bone		Hyperostosis	Moderate
* Brain		Compression	Mild
	[Compression TGLS = 6-1]		
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 5-5]		
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Multifocal, Minimal
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Dilatation TGLS = 3-23]		
	[Hyperplasia TGLS = 3-23]		
Mesentery		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
	[Adenoma TGLS = 7-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 779

TRT#: 3

SEX: Female

DAY ON TEST: 721

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043738

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 7-1]

* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Perforation	Moderate
	Forestomach	Ulcer	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Mild
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate

Note: CYST TGLs = 4-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 780

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone Marrow	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone		Hyperostosis	Moderate
* Clitoral Gland		Inflammation	Suppurative, Moderate
Note: INFLAMMATION TGLs = 2-8-1			
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Adenoma	
		Dilatation	Mild
		Hyperplasia	Moderate
[Adenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 3-1			
Note: ANGIECTASIS TGLs = 3-1			
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 781

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Brain

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
Note: [GRANULOMA] TGLs = 6,22,23 [Fibrosis TGLS = 7-23] [Hyperplasia TGLS = 4-6]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Note: ANGIECTASIS TGLs = 6-1 Note: ADENOMA TGLs = 6-1			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 781

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043740

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:25
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 782 TRT#: 3 SEX: Female DAY ON TEST: 731
 DOSE: VEHICLE CONTROL DISP: Terminal Sacrifice HISTO: A87043741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland	Cortex	Congestion	Moderate
	Cortex	Focal Cellular Change	Minimal
Note: CONGESTION TGLs = 6-10			
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Mild
Note: ADENOMA TGLs = 3-8			
* Kidney		Nephropathy	Mild
Note: NEPHROPATHY TGLs = 7-5			
* Liver		Angiectasis	Moderate
	Centrilobular	Atrophy	Marked
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Hemorrhage	Moderate
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-6-1			
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 782	TRT#: 3	SEX: Female	DAY ON TEST: 731
	DOSE: VEHICLE CONTROL	DISP: Terminal Sacrifice	HISTO: A87043741

ORGAN AND ACCOUNTABLE SITE STATUS

Mesenteric	Leukemia Mononuclear	
Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-21		
* Mammary Gland	Dilatation	Mild
Note: DILATATION TGLs = 1-8-1		
Mesentery	Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma
		Angiectasis
Note: ANGIECTASIS TGLs = 9-1		Moderate
Note: ADENOMA TGLs = 9-1		
* Spleen	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 783	TRT#: 3	SEX: Female	DAY ON TEST: 666
	DOSE: VEHICLE CONTROL	DISP: Moribund Sacrifice	HISTO: A87043742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 2-1]			
* Clitoral Gland		Inflammation	Suppurative, Mild
[Inflammation TGLS = 1-21]			
* Kidney		Nephropathy	Minimal
* Liver		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 4-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]		Angiectasis	Mild
[Angiectasis TGLS = 3-1]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 784

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Adrenal Gland - 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
- * Islets, Pancreatic
- * Lung
- * Lymph Node - Mesenteric
- * Nose
- * Ovary
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Spleen
- * Stomach - Forestomach
- * Stomach - Glandular
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder
- * Uterus

OBSERVATIONS

- * Clitoral Gland
 - Hyperplasia
 - Inflammation
 - Moderate
 - Suppurative, Moderate
- Note: INFLAMMATION TGLs = 7-8
 - Note: HYPERPLASIA TGLs = 7-8
- * Kidney
 - Nephropathy
 - Mild
- * Liver
 - Biliar Tract
 - Fibrosis
 - Minimal
 - Granuloma
 - Minimal
 - Hepatodiaphragmatic Nodule
 - Mild
 - Hyperplasia
 - Minimal
 - Bile Duct
 - [Hyperplasia TGLS = 5-23]
 - Mandibular
 - Angiectasis
 - Mild
- * Mammary Gland
 - Dilatation
 - Moderate
 - Fibroadenoma
 - Multiple
- Note: DILATATION TGLs = 4-8-1
- * Pancreas
 - Atrophy
 - Focal, Minimal
 - Cytoplasmic Alteration
 - Minimal
 - Angiectasis
 - Moderate
- Note: ANGIECTASIS TGLs = 6-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 785

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 5-23]			
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Adenocarcinoma	
		Dilatation	Mild
Note: ADENOCARC TGLs = 2-22			
Note: DILATATION TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 4-1			
Note: ADENOMA TGLs = 4-1			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 3-3			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 786

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* 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 - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign Carcinoma	Minimal
* Clitoral Gland Note: CARCINOMA TGLs = 1-8-1			
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
* Lung		Hemorrhage	Mild
		Infiltration Cellular	Mixed Cell, Mild
Note: HEMORRHAGE TGLs = 3-2			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 787

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
		Fibroadenoma	
* Mammary Gland			
[Fibroadenoma TGLS = 1-21]			
* Ovary	Corpus Luteum, Thecal Cell	Hyperplasia	Moderate
	Corpus Luteum	Proliferation	Moderate
Note: PROLIFERATION	TGLs = 2-7		
Note: HYPERPLASIA	TGLs = 2-7		
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 788

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone Marrow	* Esophagus	* Heart
* 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	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS	TGLs = 5-22		
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 6-1		
* Clitoral Gland		Degeneration	Cystic, Mild
[Degeneration TGLS = 2-8]			
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8-1]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-21]			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 7-1		
Note: ANGIECTASIS	TGLs = 7-1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 789

TRT#: 3

SEX: Female

DAY ON TEST: 731

DOSE: VEHICLE CONTROL

DISP: Terminal Sacrifice

HISTO: A87043748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Mild
* Mammary Gland [Dilatation TGLS = 1-8-1]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Spleen Note: [HYPERPLASIA] TGLs = 2-6	Capsule	Hyperplasia	Lymphoid, Histiocytic, Mild
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 790

TRT#: 3

SEX: Female

DAY ON TEST: 666

DOSE: VEHICLE CONTROL

DISP: Moribund Sacrifice

HISTO: A87043749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Granuloma	Minimal
* Mammary Gland		Dilatation	Minimal
		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 4-1			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
Note: HEMA CELL PROL TGLs = 3-6			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 791

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lung
- * Nose
- * Pituitary Gland
- * Stomach - Forestomach
- * Trachea

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mandibular
- * Ovary
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Lymph Node - Mesenteric
- * Pancreas
- * Skin
- * Thymus

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Liver
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

OBSERVATIONS

- * Kidney Mineralization Minimal
- * Uterus Hydrometra Mild

Note: HYDROMETRA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 792

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Adrenal Gland - Medulla
* Heart
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Bone
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Trachea

* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone Marrow
* Kidney

Myelofibrosis
Mineralization

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 793

TRT#: 4

SEX: Female

DAY ON TEST: 94

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

Harderian Gland	Acinus	Dilatation	Mild
		Hyperplasia	Lymphoid, Mild
		Inflammation	Chronic, Mild
* Kidney		Mineralization	Minimal
* Uterus		Hydrometra	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 794

TRT#: 4

SEX: Female

DAY ON TEST: 95

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Mild
Harderian Gland	Acinus	Dilatation	Minimal
		Hyperplasia	Glandular, Mild
		Hyperplasia	Lymphoid, Moderate
		Inflammation	Chronic, Moderate
		Metaplasia	Squamous, Mild
		Necrosis	Mild
* Kidney		Mineralization	Minimal
* Liver		Granuloma	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 795

TRT#: 4

SEX: Female

DAY ON TEST: 93

DOSE: VEHICLE 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney	Mineralization	Minimal
* Pituitary Gland	Cyst	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 796

TRT#: 3

SEX: Female

DAY ON TEST: 458

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037900

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Mild
	[Nephropathy TGLS = 1-5]		
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Focal Cellular Change	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 797

TRT#: 3

SEX: Female

DAY ON TEST: 458

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037901

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

Harderian Gland		Hyperplasia	Lymphoid, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
	Renal	Angiectasis	Mild
	Renal	Hyperplasia	Minimal
Note: ANGIECTASIS TGLs = 1-21 [Angiectasis TGLs = 1-21]			
* Pituitary Gland		Angiectasis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 798

TRT#: 3

SEX: Female

DAY ON TEST: 459

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037902

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Nose		Inflammation	Suppurative, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Inflammation	Suppurative, Mild
Vagina		Cyst	Mild
		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 799

TRT#: 3

SEX: Female

DAY ON TEST: 457

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037903

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
[Hyperplasia TGLS = 1-2]			
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland		Angiectasis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 800

TRT#: 3

SEX: Female

DAY ON TEST: 459

DOSE: VEHICLE CONTROL

DISP: Scheduled Sacrifice

HISTO: A86037904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
* Pituitary Gland		Angiectasis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 801

TRT#: 7

SEX: Female

DAY ON TEST: 669

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS	TGLs = 3-21		
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6-1		
Note: FATTY CHANGE	TGLs = 2-6-1		
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-3		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 801

TRT#: 7

SEX: Female

DAY ON TEST: 669

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043775

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 5-5

Note: LEUKEMIA MONUC TGLs = 7-22

Mesentery

* Pancreas

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Atrophy

Adenoma

Angiectasis

Focal, Minimal

Moderate

Note: ADENOMA TGLs = 4-1

Note: ANGIECTASIS TGLs = 4-1

* Spleen

Note: LEUKEMIA MONUC TGLs = 1-6

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 802

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Inguinal	Angiectasis	Moderate
	Inguinal	Hyperplasia	Mild
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 803

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Mild
* Bone		Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Intestine Small	Ileum	Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		Angiectasis	Mild
		Fibrosis	Mild
		Leukemia Mononuclear	

Note: LEUKEMIA MONUC TGLs = 3-21

* Pituitary Gland

Note: ANGIECTASIS TGLs = 2-1

* Spleen

Note: LEUKEMIA MONUC TGLs = 1-6

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 803

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043777

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 804

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: ANOM HEPAT LOB TGLs = 5-23			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 3-1			
Note: ANGIECTASIS TGLs = 3-1			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-7-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 805	TRT#: 7	SEX: Female	DAY ON TEST: 729
	DOSE: 0.0200% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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 - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 3-22		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Macrophage, Mild
* Lung			
Note: HYPERPLASIA	TGLs = 2-2-1		
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Minimal
Note: DILATATION	TGLs = 1-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Minimal
* Uterus		Adenoma	
	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 806

TRT#: 7

SEX: Female

DAY ON TEST: 589

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thymus
- * Uterus

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Ovary
- * Skin
- * Thyroid Gland

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Bone Marrow Hypercellularity Moderate
- * Kidney Nephropathy Minimal
- * Liver Focal Cellular Change Mild
- Granuloma Mild
- Hepatodiaphragmatic Nodule Mild
- Hyperplasia Minimal
- Infiltration Cellular Mixed Cell, Mild
- Bile Duct
- Fibroadenoma
- Angiectasis Mild
- * Mammary Gland Hyperplasia Lymphoid, Histiocytic, Minimal
- [Fibroadenoma TGLS = 1-21]
- * Pituitary Gland
- * Spleen

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 807

TRT#: 7

SEX: Female

DAY ON TEST: 719

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 5-21		
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
Note: ALV BRON ADEN	TGLs = 7-2-1		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Vagina		Cyst	
		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 807

TRT#: 7

SEX: Female

DAY ON TEST: 719

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043781

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 8-7-1

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 808

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Hyperplasia	Marked
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY	TGLs = 1-5		
* Liver		Angiectasis	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
* Lung		Hyperplasia	Macrophage, Mild
Note: HYPERPLASIA	TGLs = 2-2-1		
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
* Pituitary Gland		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 3-1		
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 809

TRT#: 7

SEX: Female

DAY ON TEST: 621

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
		Leukemia Mononuclear	
* Lung		Congestion	Mild
		Hemorrhage	Minimal
		Leukemia Mononuclear	
Note: CONGESTION TGLs = 4-2 [Leukemia Mononuclear TGLS = 4-2]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 3-23			
* Salivary Glands		Mineralization	Mild
* Skin		Inflammation	Chronic, Mild
		Ulcer	Minimal
Note: INFLAMMATION TGLs = 2-22 Note: ULCER TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 810

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Mandibular	Angiectasis	Mild
[Angiectasis TGLS = 3-8]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 2-22]			
[Fibroadenoma TGLS = 1-21]			
* Ovary	Corpus Luteum, Thecal Cell	Hyperplasia	Moderate
	Corpus Luteum	Proliferation	Mild
* Pituitary Gland		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 5-1			
* Uterus		Hydrometra	Mild
	Cervix, Lamina Propria	Hyperplasia	Mild
	Endometrium	Hyperplasia	Cystic, Minimal
Note: HYPERPLASIA TGLs = 4-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 811

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Nose
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Ovary
- * Skin
- * Thymus

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Pancreas
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Clitoral Gland
Note: HYPERPLASIA TGLs = 3-8
- * Kidney
- * Liver
[Fibrosis TGLS = 6-23]
[Hyperplasia TGLS = 6-23]
- * Lung
- * Mammary Gland
- * Pituitary Gland
Note: ADENOMA TGLs = 5-1
Note: ANGIECTASIS TGLs = 5-1
- * Uterus
Note: POLYP STROMAL TGLs = 4-7

- Biliar Tract
- Bile Duct
- Pars Distalis
- Endometrium

- Hyperplasia Minimal
- Nephropathy Moderate
- Fibrosis Minimal
- Focal Cellular Change Mild
- Granuloma Minimal
- Hyperplasia Mild
- Hyperplasia Multifocal, Mild
- Infiltration Cellular Mixed Cell, Mild
- Infiltration Cellular Mixed Cell, Mild
- Fibroadenoma Multiple
- Adenoma
- Angiectasis Moderate
- Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 812

TRT#: 7

SEX: Female

DAY ON TEST: 694

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Ovary
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Pancreas
- * Stomach - Forestomach
- * Trachea

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Parathyroid Gland
- * Stomach - Glandular
- * Urinary Bladder

- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Nose
- * Salivary Glands
- * Thymus

OBSERVATIONS

- * Adrenal Gland
- * Bone
 - Note: HYPEROSTOSIS TGLs = 5-25
- * Kidney
- * Liver
 - Note: ANOM HEPAT LOB TGLs = 4-24
 - Note: [GRANULOMA] TGLs = 6,24,26
 - Note: FOCAL CELL CH TGLs = 7-26
- * Lymph Node
- * Mammary Gland
 - Note: FIBROADENOMA TGLs = 2-22
- * Pituitary Gland
 - Note: ANGIECTASIS TGLs = 6-1
 - Note: ADENOMA TGLs = 6-1
- * Skin
 - Note: SARCOMA TGLs = 1-21
- * Uterus

- Medulla
- Mesenteric
- Pars Distalis
- Subcut Tiss
- Endometrium

- Infiltration Cellular
- Hyperostosis
- Nephropathy
- Focal Cellular Change
- Granuloma
- Hepatodiaphragmatic Nodule
- Angiectasis
- Dilatation
- Fibroadenoma
- Adenoma
- Angiectasis
- Cyst
- Sarcoma
- Polyp Stromal

- Lymphocyte, Mild
- Mild
- Minimal
- Mild
- Mild
- Moderate
- Mild
- Mild
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 812

TRT#: 7

SEX: Female

DAY ON TEST: 694

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043786

ORGAN AND ACCOUNTABLE SITE STATUS

Note: POLYP STROMAL TGLs = 3-23

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 813

TRT#: 7

SEX: Female

DAY ON TEST: 725

DOSE: 0.0200% CHLORAMI

DISP: Natural Death

HISTO: A87043787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Brain		Compression	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
Note: HYPERPLASIA TGLs = 4-22,6-23			
* Lung		Hemorrhage	Moderate
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Mild
		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Hemorrhage	Moderate
Note: ADENOMA TGLs = 5-1			
			[Adenoma TGLS = 5-1]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 814

TRT#: 7

SEX: Female

DAY ON TEST: 618

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Islets, Pancreatic	* Lymph Node - Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	Vagina		

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Atrophy	Marked
		Fatty Change	Moderate
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-6,10-6		
Note: HYPERPLASIA	TGLs = 9-6,10-6		
Note: ATROPHY	TGLs = 9-6,10-6		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Angiectasis	Mild
	Renal	Angiectasis	Moderate
	Mesenteric	Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 11-3		
Note: ANGIECTASIS	TGLs = 7-21		
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-8,1-8-1		
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 814	TRT#: 7	SEX: Female	DAY ON TEST: 618
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043788

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 13-1	Angiectasis	Mild
Note: ADENOMA	TGLs = 12-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-6		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Note: HYPERPLASIA	TGLs = 5-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 815

TRT#: 7

SEX: Female

DAY ON TEST: 508

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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 - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Marked
	[Adenoma TGLS = 1-21]		
	[Inflammation TGLS = 1-21]		
* Kidney		Nephropathy	Minimal
* Liver		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung			
	Note: INFILTRAT CELL TGLs = 5-2		
* Lymph Node	Inguinal	Hyperplasia	Mild
	[Hyperplasia TGLS = 2-22]		
* Mammary Gland		Dilatation	Mild
* Pituitary Gland		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
	Note: HEMA CELL PROL TGLs = 4-6		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 816

TRT#: 7

SEX: Female

DAY ON TEST: 589

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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 - Mesenteric
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS	TGLs = 6-23		
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Degeneration	Cystic, Mild
Note: DEGEN	TGLs = 3-8		
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-21,5-22		
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node	Mandibular	Angiectasis	Minimal
Note: ANGIECTASIS	TGLs = 2-8		
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8]			
* Parathyroid Gland		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 7-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 816	TRT#: 7	SEX: Female	DAY ON TEST: 589
	DOSE: 0.0200% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043790

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]

* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hydrometra Hyperplasia	Minimal Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 817

TRT#: 7

SEX: Female

DAY ON TEST: 704

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland Note: LEUKEMIA MONUC TGLs = 5-10	Cortex	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain Note: HEMORRHAGE TGLs = 11-1 Note: LEUKEMIA MONUC TGLs = 11-1		Hemorrhage	Moderate
		Leukemia Mononuclear	
* Kidney Note: NEPHROPATHY TGLs = 6-5		Nephropathy	Moderate
* Liver Note: LEUKEMIA MONUC TGLs = 7-6	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung Note: LEUKEMIA MONUC TGLs = 9-2	Alveolar Epith	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lymph Node Note: LEUKEMIA MONUC TGLs = 2-8 Note: ANGIECTASIS TGLs = 10-5	Mediastinal	Angiectasis	Mild
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 817

TRT#: 7

SEX: Female

DAY ON TEST: 704

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043791

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION * Nose	TGLs = 1-8-1		Fungus Inflammation	Mild Suppurative, Mild
* Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC * Stomach	TGLs = 4-6	Forestomach, Mucosa Forestomach Forestomach	Hyperplasia Inflammation Ulcer	Papillary, Mild Chronic, Moderate Moderate
Note: ULCER	TGLs = 8-4-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 818

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Lymphoid, Histiocytic, Mild
[Hyperplasia TGLS = 2-22]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 3-1			
Note: ADENOMA TGLs = 3-1			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Histiocytic, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 819

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 3-22]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-21			
* Ovary	Follicle	Cyst	Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 2-1			
Note: ADENOMA TGLs = 2-1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 820

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Macrophage, Mild
* Lung			
Note: HYPERPLASIA	TGLs = 7-2-1		
* Mammary Gland		Dilatation	Marked
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
Note: DILATATION	TGLs = 2-8-1		
Mesentery	Fat	Necrosis	Moderate
Note: NECROSIS	TGLs = 6-22		
* Ovary	Periovarn Tiss	Cyst	Moderate
Note: CYST	TGLs = 3-7		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 8-1		
Note: ANGIECTASIS	TGLs = 8-1		
* Spleen		Hemangiosarcoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Vagina		Cyst	
Note: CYST	TGLs = 4-7-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 820

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043794

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 821

TRT#: 7

SEX: Female

DAY ON TEST: 465

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Spleen
- * Thyroid Gland

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Stomach - Forestomach
- * Trachea

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Kidney
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Skin
- * Thymus

OBSERVATIONS

- * Bone Marrow
- * Liver

Hypercellularity
 Granuloma
 Hepatodiaphragmatic Nodule
 Infiltration Cellular

Mild
 Minimal
 Moderate
 Mixed Cell, Mild

Note: [GRANULOMA] TGLs = 6,22
 Note: ANOM HEPAT LOB TGLs = 5-22

- * Lung
- * Mammary Gland

Infiltration Cellular
 Fibroadenoma

Mixed Cell, Mild

[Fibroadenoma TGLS = 2-21]

- * Nose
 - * Ovary
- Note: CYST TGLs = 3-7

Periovarn Tiss

Inflammation
 Cyst

Suppurative, Minimal
 Moderate

- * Pancreas
- * Pituitary Gland

Pars Distalis

Atrophy
 Adenoma
 Angiectasis
 Hyperplasia

Focal, Minimal
 Moderate
 Cystic, Mild

- * Uterus
- Note: HYPERPLASIA TGLs = 4-7

Endometrium

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 822

TRT#: 7

SEX: Female

DAY ON TEST: 687

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Clitoral Gland		Inflammation	Suppurative, Minimal
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Ovary		Angiectasis	Mild
[Angiectasis TGLS = 3-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]		Angiectasis	Mild
* Uterus	Endometrium	Polyp Stromal	
Vagina		Cyst	Moderate
Note: CYST TGLs = 2-7-1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 823

TRT#: 7

SEX: Female

DAY ON TEST: 729

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043797

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 - Duodenum | * Intestine Small - Ileum | * Intestine Small - Jejunum |
| * Islets, Pancreatic | * Lung | * Lymph Node - Mandibular | * Lymph Node - Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach - Forestomach |
| * Stomach - Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------------|---------------|------------------------|-------------|
| * Adrenal Gland | Cortex | Focal Cellular Change | Moderate |
| | Medulla | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Mild |
| | Biliar Tract | Fibrosis | Minimal |
| | | Focal Cellular Change | Mild |
| | | Granuloma | Minimal |
| | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Minimal |
| | | | |
| | | | |
| [Fibrosis TGLS = 5-23] | | | |
| [Hyperplasia TGLS = 5-23] | | | |
| * Mammary Gland | | Dilatation | Mild |
| Note: DILATATION TGLs = 1-21 | | | |
| * Pituitary Gland | | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| Note: ANGIECTASIS TGLs = 3-1 | | | |
| * Uterus | Endometrium | Polyp Stromal | |
| Note: POLYP STROMAL TGLs = 2-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 824

TRT#: 7

SEX: Female

DAY ON TEST: 662

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
	Cortex	Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC			
TGLs = 8-1			
Note: HEMORRHAGE			
TGLs = 8-1			
Eye		Atrophy	Marked
	Retina	Degeneration	Marked
Note: ATROPHY			
TGLs = 2-22			
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC			
TGLs = 6-6			
Note: FATTY CHANGE			
TGLs = 6-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 824

TRT#: 7

SEX: Female

DAY ON TEST: 662

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043798

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 11-3	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 10-8			
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
		Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
* Skin	Subcut Tiss	Fibrosarcoma	
	Subcut Tiss	Leukemia Mononuclear	
Note: FIBROSARC TGLs = 1-21			
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
	Forestomach	Inflammation	Chronic, Moderate
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Ulcer	Moderate
Note: INFLAMMATION TGLs = 5-4,9-4			
Note: HYPERPLASIA TGLs = 5-4,9-4			
Note: ULCER TGLs = 5-4,9-4			
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 825

TRT#: 7

SEX: Female

DAY ON TEST: 687

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043799

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
* Lymph Node - Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	* Uterus
Vagina			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
Note: DILATATION	TGLs = 5-8		
* Pituitary Gland		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 7-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 825

TRT#: 7

SEX: Female

DAY ON TEST: 687

DOSE: 0.0200% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043799

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 826

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mandibular
- * Ovary
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Lymph Node - Mesenteric
- * Pancreas
- * Skin
- * Thymus

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Liver
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lung
- * Nose
- * Pituitary Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

* Brain

Atrophy
 Hydrocephalus
 Mineralization
 Necrosis

Marked
 Moderate
 Focal, Moderate
 Moderate

Note: HYDROCEPHALUS TGLs = 2-1

Note: ATROPHY TGLs = 2-1

Note: NECROSIS TGLs = 2-1

Note: MINERALIZATION TGLs = 2-1

Harderian Gland

Acinus

Dilatation
 Hyperplasia
 Hyperplasia
 Inflammation
 Mineralization
 Hydrometra

Minimal
 Lymphoid, Mild
 Glandular, Mild
 Chronic, Mild
 Mild
 Mild

* Kidney

* Uterus

Note: HYDROMETRA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 827

TRT#: 8

SEX: Female

DAY ON TEST: 95

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow	Myelofibrosis	Mild
* Kidney	Mineralization	Minimal
	Nephropathy	Minimal
* Liver	Granuloma	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 828

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mandibular
- * Ovary
- * Salivary Glands
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Lymph Node - Mesenteric
- * Pancreas
- * Skin
- * Thymus
- * Uterus

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Liver
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Thyroid Gland

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lung
- * Nose
- * Pituitary Gland
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Bone Marrow
- Harderian Gland
- * Kidney

Acinus

- Myelofibrosis
- Dilatation
- Mineralization

- Minimal
- Mild
- Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 829

TRT#: 8

SEX: Female

DAY ON TEST: 94

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Ovary
* Skin
* Thymus
* Urinary Bladder

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Pancreas
* Spleen
* Thyroid Gland
* Uterus

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Mammary Gland
* Pituitary Gland
* Stomach - Forestomach
Tooth

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Lung
* Nose
* Salivary Glands
* Stomach - Glandular
* Trachea

MISSING

* Parathyroid Gland

OBSERVATIONS

Harderian Gland

Hyperplasia
Inflammation
Mineralization
Granuloma

Lymphoid, Minimal
Chronic, Minimal
Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 830

TRT#: 8

SEX: Female

DAY ON TEST: 93

DOSE: 0.0200% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Trachea

OBSERVATIONS

* Kidney
* Liver

Mineralization
Granuloma

Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 831

TRT#: 7

SEX: Female

DAY ON TEST: 457

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Clitoral Gland Note: DEGEN TGLs = 3-8		Degeneration	Cystic, Mild
* Kidney Note: NEPHROPATHY TGLs = 1-5		Nephropathy	Moderate
* Liver Note: ANOM HEPAT LOB TGLs = 2-21		Hepatodiaphragmatic Nodule	Mild
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Focal Cellular Change	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 832

TRT#: 7

SEX: Female

DAY ON TEST: 458

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Moderate
Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node	Mediastinal	Angiectasis	Minimal
	Mesenteric	Angiectasis	Mild
	Renal	Angiectasis	Moderate
	Pancreatic	Hyperplasia	Lymphoid, Mild
Note: HYPERPLASIA TGLs = 4-22			
Note: ANGIECTASIS TGLs = 3-5			
[Angiectasis TGLS = 2-21]			
* Pituitary Gland		Angiectasis	Mild
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Minimal
	Endometrium	Hyperplasia	Cystic, Mild
	Serosa	Inflammation	Chronic, Mild
Vagina		Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 832

TRT#: 7

SEX: Female

DAY ON TEST: 458

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037970

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Suppurative, Mild

Note: CYST TGLs = 1-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 833

TRT#: 7

SEX: Female

DAY ON TEST: 457

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Ovary
- * Skin
- * Thymus

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Pancreas
- * Spleen
- * Trachea

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Stomach - Forestomach
- * Urinary Bladder

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach - Glandular
- * Uterus

OBSERVATIONS

- Harderian Gland
- * Kidney
- * Liver
- * Pituitary Gland
- * Thyroid Gland

- Bile Duct
- Pars Distalis
- C Cell

- Hyperplasia
- Mineralization
- Nephropathy
- Focal Cellular Change
- Hyperplasia
- Angiectasis
- Focal Cellular Change
- Hyperplasia

- Lymphoid, Minimal
- Minimal
- Mild
- Minimal
- Minimal
- Minimal
- Minimal
- Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 834

TRT#: 7

SEX: Female

DAY ON TEST: 459

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
Harderian Gland		Hyperplasia	Lymphoid, Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Angiectasis	Mild
* Stomach	Forestomach	Diverticulum	Moderate
[Diverticulum TGLS = 2-4]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Moderate
[Hydrometra TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 835

TRT#: 7

SEX: Female

DAY ON TEST: 458

DOSE: 0.0200% CHLORAMI

DISP: Scheduled Sacrifice

HISTO: A86037973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Pancreas
- * Spleen
- * Trachea

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Parathyroid Gland
- * Stomach - Forestomach
- * Urinary Bladder

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Nose
- * Salivary Glands
- * Stomach - Glandular
- * Uterus

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Ovary
- * Skin
- * Thymus

OBSERVATIONS

- * Bone Marrow
- * Kidney

- * Liver
- * Lymph Node
- * Pituitary Gland

- * Thyroid Gland

- Mediastinal

- Pars Distalis
- C Cell

- Myelofibrosis
- Mineralization
- Nephropathy
- Granuloma
- Angiectasis
- Angiectasis
- Hyperplasia
- Hyperplasia

- Minimal
- Minimal
- Minimal
- Minimal
- Mild
- Mild
- Focal, Mild
- Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 836

TRT#: 11

SEX: Female

DAY ON TEST: 726

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

MISSING

* Brain	* Thymus
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OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone		Hyperostosis	Minimal
[Hyperostosis TGLS = 7-23]			
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 4-5]			
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hyperplasia	Multifocal, Minimal
[Focal Cellular Change TGLS = 8-24]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 6-1]			
[Angiectasis TGLS = 6-1]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:25
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 837 TRT#: 11 SEX: Female DAY ON TEST: 732
 DOSE: 0.0100% CHLORAMI DISP: Terminal Sacrifice HISTO: A87043875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone		Hyperostosis	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
Note: FOCAL CELL CH TGLs = 5-23,4-21			
Note: ANGIECTASIS TGLs = 5-23			
* Lymph Node	Mandibular	Hyperplasia	Mild
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 2-22			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA TGLs = 3-1			
Note: ANGIECTASIS TGLs = 3-1			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Minimal
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tongue		Squamous Cell Papilloma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 838

TRT#: 11

SEX: Female

DAY ON TEST: 719

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Ovary
- * Skin
- * Uterus

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Thymus

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lymph Node - Mandibular
- * Pituitary Gland
- * Trachea

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Salivary Glands
- * Urinary Bladder

OBSERVATIONS

- * Adrenal Gland
- * Kidney
- * Liver

Cortex

- Focal Cellular Change
- Nephropathy
- Fatty Change
- Granuloma
- Hepatodiaphragmatic Nodule

- Minimal
- Minimal
- Moderate
- Minimal
- Moderate

Note: [GRANULOMA] TGLs = 6,24
 Note: ANOM HEPAT LOB TGLs = 7-23
 Note: FATTY CHANGE TGLs = 6-6

- * Lung

Alveolar Epith

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 9-2-1

- * Mammary Gland

- Dilatation
- Fibroadenoma
- Inflammation
- Fungus
- Inflammation
- Atrophy
- Hematopoietic Cell Proliferation

- Mild
- Multiple
- Chronic, Mild
- Mild
- Suppurative, Mild
- Focal, Minimal
- Moderate

- Mesentery
- * Nose

- * Pancreas
- * Spleen
- * Stomach

- Forestomach, Mucosa
- Forestomach
- Glandular
- Forestomach

- Hyperplasia
- Inflammation
- Inflammation
- Ulcer

- Papillary, Marked
- Chronic, Moderate
- Chronic, Mild
- Moderate

Note: HYPERPLASIA TGLs = 10-4

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 838

TRT#: 11

SEX: Female

DAY ON TEST: 719

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043876

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ULCER TGLs = 10-4

Note: INFLAMMATION TGLs = 11-4

Note: INFLAMMATION TGLs = 10-4

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Vagina

Cyst

Moderate

Inflammation

Suppurative, Moderate

Note: INFLAMMATION TGLs = 4-7,5-7

Note: CYST TGLs = 4-7,5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 839

TRT#: 11

SEX: Female

DAY ON TEST: 560

DOSE: 0.0100% CHLORAMI

DISP: Natural Death

HISTO: A87043877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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 - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Cortex	Vacuolization Cytoplasmic	Mild
* Bone		Hyperostosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Marked
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: FATTY CHANGE	TGLs = 6-6,5-24,7-23		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Angiectasis	Mild
	Mediastinal	Leukemia Mononuclear	
Note: ANGIECTASIS	TGLs = 9-3		
* Mammary Gland		Dilatation	Minimal
Note: DILATATION	TGLs = 1-21		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Stomach	Glandular	Erosion	Mild
	Forestomach, Mucosa	Hyperplasia	Papillary, Minimal
	Forestomach	Inflammation	Chronic, Mild
Note: EROSION	TGLs = 10-25		
* Thyroid Gland	Follicular Cel	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 839

TRT#: 11

SEX: Female

DAY ON TEST: 560

DOSE: 0.0100% CHLORAMI

DISP: Natural Death

HISTO: A87043877

ORGAN AND ACCOUNTABLE SITE STATUS

Vagina

Cyst

Mild

Inflammation

Suppurative, Mild

Note: INFLAMMATION TGLs = 2-7-1

Note: CYST TGLs = 2-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 840

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS TGLs = 2-22			
* Brain		Compression	Mild
Eye		Cataract	Moderate
Note: CATARACT TGLs = 1-21			
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 3-1 [Adenoma TGLS = 3-1]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 841

TRT#: 11

SEX: Female

DAY ON TEST: 698

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Esophagus	* Heart
* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Brain		Compression	Moderate
[Compression TGLS = 4-1-1]			
* Clitoral Gland		Degeneration	Cystic, Mild
		Hyperplasia	Mild
[Degeneration TGLS = 3-8]			
[Hyperplasia TGLS = 3-8]			
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
[Fatty Change TGLS = 6-23]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 1-21]			
[Fibroadenoma TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 5-1]			
[Angiectasis TGLS = 5-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 841

TRT#: 11

SEX: Female

DAY ON TEST: 698

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043879

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 842

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla
* Intestine Large - Cecum
* Intestine Small - Ileum
* Parathyroid Gland
* Stomach - Glandular
* Urinary Bladder

* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Salivary Glands
* Thymus

* Esophagus
* Intestine Large - Rectum
* Nose
* Skin
* Thyroid Gland

* Heart
* Intestine Small - Duodenum
* Ovary
* Stomach - Forestomach
* Trachea

MISSING

* Islets, Pancreatic

* Pancreas

OBSERVATIONS

* Adrenal Gland
* Bone
* Bone Marrow
* Clitoral Gland
 Note: ADENOMA TGLs = 3-8-1
* Kidney
* Liver

* Lung
 Note: HEMORRHAGE TGLs = 5-2
 Note: LEUKEMIA MONUC TGLs = 5-2
* Lymph Node

* Mammary Gland
 Note: DILATATION TGLs = 2-21
* Pituitary Gland

* Spleen
 Note: LEUKEMIA MONUC TGLs = 4-6

Cortex

Mandibular
Mediastinal
Mesenteric

Pars Distalis

Focal Cellular Change
Hyperostosis
Leukemia Mononuclear
Adenoma

Nephropathy
Focal Cellular Change
Leukemia Mononuclear
Hemorrhage
Leukemia Mononuclear

Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Dilatation

Angiectasis
Hyperplasia
Leukemia Mononuclear

Minimal
Mild

Mild
Minimal

Mild

Mild

Moderate
Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 842

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043880

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 843

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 6-24]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 2-22			
Note: DILATATION TGLs = 4-23			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 5-1			
Note: ADENOMA TGLs = 5-1			
* Skin	Subcut Tiss	Fibroma	
Note: FIBROMA TGLs = 1-21			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 844

TRT#: 11

SEX: Female

DAY ON TEST: 704

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Mild
* Brain		Compression	Minimal
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 4-5,3-5		
* Liver		Fatty Change	Moderate
		Granuloma	Minimal
Note: FATTY CHANGE	TGLs = 5-6		
* Lymph Node	Mediastinal	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 9-2		
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
Mesentery		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 10-1		
Note: ADENOMA	TGLs = 10-1		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Marked
	Forestomach	Inflammation	Chronic, Marked
	Glandular	Inflammation	Chronic, Mild
	Forestomach	Ulcer	Marked
Note: ULCER	TGLs = 6-4		
Note: INFLAMMATION	TGLs = 6-4		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 844	TRT#: 11	SEX: Female	DAY ON TEST: 704
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043882

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 6-4]			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
[Polyp Stromal TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 845

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043883

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Bone | * Bone Marrow | * Brain |
| * Esophagus | * Heart | * Intestine Large - Cecum | * Intestine Large - Colon |
| * Intestine Small - Duodenum | * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node - Mandibular | * Lymph Node - Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach - Forestomach | * Stomach - Glandular |
| * Thymus | * Trachea | | |

OBSERVATIONS

- | | | | |
|--------------------------------|------------------------|----------------------------------|-----------------------|
| * Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| * Clitoral Gland | | Adenoma | |
| | | Hyperplasia | Mild |
| | | Inflammation | Suppurative, Moderate |
| Note: HYPERPLASIA TGLs = 3-8-1 | | | |
| Note: ADENOMA TGLs = 2-8-1 | | | |
| * Intestine Large | Rectum | Parasite Metazoan | Minimal |
| * Kidney | Pelvis, Transit Epithe | Hyperplasia | Moderate |
| | | Inflammation | Suppurative, Moderate |
| | | Nephropathy | Mild |
| * Liver | | Focal Cellular Change | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| * Lymph Node | Inguinal | Hyperplasia | Mild |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | Multiple |
| Note: DILATATION TGLs = 1-8 | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Urinary Bladder | Transit Epithe | Hyperplasia | Moderate |
| | | Inflammation | Chronic, Moderate |
| Note: HYPERPLASIA TGLs = 6-8 | | | |
| Note: INFLAMMATION TGLs = 6-8 | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 845	TRT#: 11	SEX: Female	DAY ON TEST: 732
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043883

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
Note: HYDROMETRA	TGLs = 7-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 846

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043884

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Adrenal Gland - Medulla
- * 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 - Mesenteric
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach - Forestomach
- * Stomach - Glandular
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- * Bone Hyperostosis Mild
- * Bone Marrow Leukemia Mononuclear
- Ear Pinna Schwannoma Nos
- * Kidney Nephropathy Minimal
- * Liver Focal Cellular Change Mild
- Bile Duct Hyperplasia Minimal
- Hyperplasia Multifocal, Mild
- Leukemia Mononuclear
- Note: LEUKEMIA MONUC TGLs = 7-6
- * Lung Leukemia Mononuclear
- Note: LEUKEMIA MONUC TGLs = 6-2
- * Lymph Node Mandibular Angiectasis Mild
- Note: ANGIECTASIS TGLs = 9-8
- * Mammary Gland Fibroadenoma
- Hyperplasia Mild
- [Fibroadenoma TGLS = 2-22]
- [Hyperplasia TGLS = 3-8-1]
- * Nose Fungus Minimal
- Inflammation Suppurative, Minimal
- * Pituitary Gland Angiectasis Moderate
- Note: ANGIECTASIS TGLs = 8-1
- * Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 846	TRT#: 11	SEX: Female	DAY ON TEST: 732
	DOSE: 0.0100% CHLORAMI	DISP: Terminal Sacrifice	HISTO: A87043884

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 5-6			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Marked
[Cyst TGLS = 4-7]			
[Inflammation TGLS = 4-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 847

TRT#: 11

SEX: Female

DAY ON TEST: 200

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A86037958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland Note: INFLAMMATION TGLs = 3-8		Inflammation	Suppurative, Minimal
* Kidney [Pigmentation TGLS = 2-5]		Nephropathy Pigmentation	Minimal Moderate
* Liver	Biliar Tract Bile Duct	Fibrosis Hyperplasia Necrosis	Minimal Minimal Focal, Mild
* Lymph Node	Mediastinal	Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 848

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043885

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
Note: [GRANULOMA] TGLs = 6,21			
Note: ANOM HEPAT LOB TGLs = 4-21			
* Lymph Node	Mediastinal	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 3-3-1			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-7-1			
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Mild
Note: INFLAMMATION TGLs = 1-7			
Note: CYST TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 849

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Clitoral Gland		Inflammation	Suppurative, Minimal
Note: INFLAMMATION TGLs = 8-8			
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Granuloma	Minimal
Note: [GRANULOMA] TGLs = 6,22,24,25		Hyperplasia	Minimal
[Focal Cellular Change TGLS = 7-25,6-24]			
* Lymph Node	Mesenteric	Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 5-5			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 3-23]			
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 4-1			
Note: ADENOMA TGLs = 4-1			
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 849

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043886

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 850

TRT#: 11

SEX: Female

DAY ON TEST: 619

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Brain		Compression	Moderate
[Compression TGLS = 3-1]			
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Focal Cellular Change	Mild
		Granuloma	Moderate
[Focal Cellular Change TGLS = 4-21]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node	Pancreatic	Angiectasis	Mild
[Angiectasis TGLS = 5-7-1]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8-1]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 851

TRT#: 11

SEX: Female

DAY ON TEST: 667

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Esophagus
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Moderate
Note: INFLAMMATION	TGLs = 1-21		
Note: ADENOMA	TGLs = 1-21		
* Heart		Thrombosis	Mild
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Marked
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-5		
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 6-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 851	TRT#: 11	SEX: Female	DAY ON TEST: 667
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043888

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Developmental Malformation Leukemia Mononuclear	Mild
Note: DEVELOP MALFOR	TGLs = 2-22		
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 852

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,24 [Hyperplasia TGLS = 4-24]			
* Lung		Hyperplasia	Macrophage, Minimal
Note: HYPERPLASIA TGLs = 5-2			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
Note: DILATATION TGLs = 2-22			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Skin	Sebaceous GI	Cyst	Mild
Note: CYST TGLs = 6-25			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 853

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Parathyroid Gland
* Stomach - Forestomach
* Trachea

* Adrenal Gland - Medulla
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Nose
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Bone
* Heart
* Intestine Small - Duodenum
* Lung
* Ovary
* Skin
* Thymus

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Pancreas
* Spleen
* Thyroid Gland

OBSERVATIONS

* Clitoral Gland

Adenoma
Inflammation

Suppurative, Moderate

Note: INFLAMMATION TGLs = 4-8

Note: ADENOMA TGLs = 4-8

Eye

Retina

Cataract
Degeneration
Hemorrhage

Mild
Moderate
Moderate

[Hemorrhage TGLS = 1-21]

* Kidney

Nephropathy

Marked

Note: NEPHROPATHY TGLs = 6-5

* Liver

Fatty Change
Granuloma
Adenocarcinoma
Dilatation
Fibroadenoma
Hyperplasia

Minimal
Minimal
Mild
Mild

Note: HYPERPLASIA TGLs = 2-8-1

Note: DILATATION TGLs = 2-8-1

[Dilatation TGLS = 3-22]

[Hyperplasia TGLS = 5-23]

* Pituitary Gland

Cyst

Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 853

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043890

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 8-1

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 854

TRT#: 11

SEX: Female

DAY ON TEST: 465

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Pancreas
- * Stomach - Glandular
- * Urinary Bladder
- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Mammary Gland
- * Parathyroid Gland
- * Thymus
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Nose
- * Salivary Glands
- * Thyroid Gland
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Ovary
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Adrenal Gland
Note: CONGESTION TGLs = 6-10
Cortex
Congestion
Mild
- * Bone Marrow
Leukemia Mononuclear
- * Kidney
Nephropathy
Minimal
- * Liver
Bile Duct
Hyperplasia
Minimal
Leukemia Mononuclear
Leukemia Mononuclear
- * Lung
Note: LEUKEMIA MONUC TGLs = 8-2
Mandibular
Inguinal
Mandibular
Mediastinal
Mesenteric
Angiectasis
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
- * Pituitary Gland
Note: LEUKEMIA MONUC TGLs = 3-8
Note: LEUKEMIA MONUC TGLs = 4-22
Note: LEUKEMIA MONUC TGLs = 9-3
[Leukemia Mononuclear TGLs = 3-8]
Cyst
Moderate
- * Skin
Hemorrhage
Mild
Inflammation
Chronic, Mild
Ulcer
Mild
Note: HEMORRHAGE TGLs = 7-23,10-24

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 854	TRT#: 11	SEX: Female	DAY ON TEST: 465
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043891

ORGAN AND ACCOUNTABLE SITE STATUS

Note: INFLAMMATION	TGLs = 1-21		
Note: ULCER	TGLs = 2-21		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 855

TRT#: 11

SEX: Female

DAY ON TEST: 698

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thymus

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Ovary
- * Skin
- * Trachea

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Stomach - Forestomach
- * Urinary Bladder

- * Brain
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Glandular

OBSERVATIONS

- * Adrenal Gland
Note: ADENOMA TGLs = 3-22
- * Clitoral Gland
- * Kidney
- * Liver
Note: LEUKEMIA MONUC TGLs = 4-6
- * Mammary Gland
[Fibroadenoma TGLS = 1-21]
- * Pituitary Gland
- * Spleen
- * Thyroid Gland
- * Uterus
[Polyp Stromal TGLS = 2-7-1]

- Cortex
- Biliar Tract
- Bile Duct
- Pars Distalis
- C Cell
- Endometrium
- Endometrium

- Adenoma
- Inflammation
- Nephropathy
- Fibrosis
- Focal Cellular Change
- Granuloma
- Hyperplasia
- Leukemia Mononuclear
- Fibroadenoma
- Angiectasis
- Hyperplasia
- Leukemia Mononuclear
- Hyperplasia
- Hyperplasia
- Polyp Stromal

- Suppurative, Minimal
- Minimal
- Minimal
- Mild
- Minimal
- Minimal
- Mild
- Focal, Mild
- Minimal
- Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 856

TRT#: 11

SEX: Female

DAY ON TEST: 456

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A86037974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Gland	Cortex	Angiectasis	Mild
* Kidney		Mineralization	Mild
		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
	Inguinal	Hyperplasia	Moderate
	Mandibular	Hyperplasia	Moderate
* Skin		Erosion	Mild
		Exudate	Marked
	Subcut Tiss	Foreign Body	Mild
		Inflammation	Chronic, Marked

[Exudate TGLS = 2-21]

[Foreign Body TGLS = 3-22]

[Inflammation TGLS = 3-22,1-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 857	TRT#: 11	SEX: Female	DAY ON TEST: 628
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Granuloma	Mild
		Hematopoietic Cell Proliferation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 858

TRT#: 11

SEX: Female

DAY ON TEST: 697

DOSE: 0.0100% CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small	* Islets, Pancreatic
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
Eye		Cataract	Marked
	Retina	Degeneration	Marked
Note: DEGEN	TGLs = 1-21		
Note: CATARACT	TGLs = 1-21		
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 3-8		
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 858	TRT#: 11	SEX: Female	DAY ON TEST: 697
	DOSE: 0.0100% CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043894

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 11-1		
Note: ADENOMA	TGLs = 11-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-6		
* Uterus		Endometrium	Cystic, Mild
		Endometrium	
Note: POLYP STROMAL	TGLs = 7-7,8-7		
Vagina		Hyperplasia	
		Polyp Stromal	
Note: INFLAMMATION	TGLs = 5-7		
Note: CYST	TGLs = 6-7	Cyst	Mild
		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 859

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Brain	* Esophagus
* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 2-21		
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
		Leukemia Mononuclear	
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Sarcoma Stromal	
Note: SARC STROMAL	TGLs = 1-7-1		
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 860

TRT#: 11

SEX: Female

DAY ON TEST: 732

DOSE: 0.0100% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Adrenal Gland - 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
- * Lung
- * Lymph Node - Mandibular
- * Lymph Node - Mesenteric
- * Ovary
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Stomach - Forestomach
- * Stomach - Glandular
- * Thymus
- * Thyroid Gland
- * Trachea
- * Urinary Bladder

OBSERVATIONS

- Eye Lids Schwannoma Nos
- * Kidney Atrophy Moderate
- Nephropathy Moderate
- Note: NEPHROPATHY TGLs = 5-5
- Note: ATROPHY TGLs = 5-5
- * Liver Biliar Tract Fibrosis Minimal
- Focal Cellular Change Minimal
- Granuloma Minimal
- Bile Duct Hyperplasia Minimal
- Leukemia Mononuclear
- [Leukemia Mononuclear TGLS = 3-6]
- * Mammary Gland Dilatation Mild
- Note: DILATATION TGLs = 2-8
- * Nose Fungus Mild
- Inflammation Suppurative, Mild
- * Pituitary Gland Pars Distalis Adenoma
- * Spleen Leukemia Mononuclear
- * Uterus Endometrium Hyperplasia Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 871 **TRT#:** 15 **SEX:** Female **DAY ON TEST:** 698
DOSE: 0.00500%CHLORAMI **DISP:** Natural Death **HISTO:** A87043920

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland Note: ANGIECTASIS TGLs = 6-10	Cortex	Angiectasis	Mild
* Bone Marrow		Leukemia Mononuclear	
Ear	Pinna	Schwannoma Nos	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Bile Duct	Focal Cellular Change	Minimal
		Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-6			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-3			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 2-8			
Mesentery		Leukemia Mononuclear	
* Nose		Fungus	Minimal
		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 871	TRT#: 15	SEX: Female	DAY ON TEST: 698
	DOSE: 0.00500%CHLORAMI	DISP: Natural Death	HISTO: A87043920

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HEMORRHAGE	TGLs = 9-1	Hemorrhage	Marked
Note: ADENOMA	TGLs = 9-1		
Note: ANGIECTASIS	TGLs = 9-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Thymus		Leukemia Mononuclear	
* Uterus		Hydrometra	Moderate
		Endometrium	Cystic, Mild
Note: HYDROMETRA	TGLs = 5-7	Hyperplasia	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 872

TRT#: 15

SEX: Female

DAY ON TEST: 570

DOSE: 0.00500%CHLORAMI

DISP: Natural Death

HISTO: A87043921

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node - Mandibular

OBSERVATIONS

* Brain		Compression	Marked
		Hemorrhage	Marked
Note: HEMORRHAGE	TGLs = 4-1		
Note: COMPRESSION	TGLs = 4-1		
* Clitoral Gland		Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Moderate
[Hepatodiaphragmatic Nodule TGLS = 2-21]			
* Lung		Hemorrhage	Moderate
Note: HEMORRHAGE	TGLs = 3-2		
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 873

TRT#: 15

SEX: Female

DAY ON TEST: 719

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 3-1		
* Clitoral Gland		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 2-8		
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Minimal
[Fibroadenoma TGLS = 1-21]		Fibroadenoma	
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA	TGLs = 4-1	Angiectasis	Moderate
[Adenoma TGLS = 4-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 874

TRT#: 15

SEX: Female

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Rectum
* Islets, Pancreatic
* Nose
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Adrenal Gland - Medulla
* Esophagus
* Intestine Small - Duodenum
* Lung
* Ovary
* Skin
* Thymus

* Bone
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Pancreas
* Spleen
* Thyroid Gland

* Bone Marrow
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Parathyroid Gland
* Stomach - Forestomach
* Trachea

OBSERVATIONS

* Clitoral Gland
* Heart
* Kidney
* Liver

Artery

Biliar Tract

Bile Duct

Inflammation
Inflammation
Nephropathy
Fibrosis
Focal Cellular Change
Granuloma
Hepatodiaphragmatic Nodule
Hyperplasia

Suppurative, Minimal
Chronic, Mild
Mild
Minimal
Mild
Minimal
Moderate
Minimal

Note: ANOM HEPAT LOB TGLs = 2-21
Note: [GRANULOMA] TGLs = 6,21,22
[Hepatodiaphragmatic Nodule TGLS = 3-22]

* Mammary Gland
* Pituitary Gland
* Uterus

Endometrium
Endometrium

Dilatation
Angiectasis
Hyperplasia
Polyp Stromal

Mild
Minimal
Cystic, Mild

[Polyp Stromal TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 875

TRT#: 15

SEX: Female

DAY ON TEST: 576

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Hyperostosis	Mild
* Bone Marrow		Hypercellularity	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,21 [Focal Cellular Change TGLS = 7-21]			
* Lymph Node	Mediastinal	Angiectasis	Mild
[Angiectasis TGLS = 6-3]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland		Angiectasis	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 876

TRT#: 15

SEX: Female

DAY ON TEST: 622

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus
Vagina			

OBSERVATIONS

* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,21 [Hyperplasia TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 877

TRT#: 15

SEX: Female

DAY ON TEST: 702

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Parathyroid Gland
* Stomach - Forestomach
* Trachea

* Adrenal Gland - Medulla
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Nose
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Bone
* Heart
* Intestine Small - Duodenum
* Lung
* Ovary
* Skin
* Thymus

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Pancreas
* Spleen
* Thyroid Gland

OBSERVATIONS

* Brain
Note: COMPRESSION TGLs = 6-1
* Kidney
Note: NEPHROPATHY TGLs = 3-5
* Liver
Note: [GRANULOMA] TGLs = 6,22,23
[Hyperplasia TGLs = 4-22]
* Mammary Gland
Note: DILATATION TGLs = 1-8
Mesentery
Note: NECROSIS TGLs = 2-21
* Pituitary Gland
Note: ANGIECTASIS TGLs = 7-1-1
Note: ADENOMA TGLs = 7-1-1
* Uterus

Biliar Tract
Serosa
Bile Duct
Fat
Pars Distalis
Endometrium

Compression Moderate
Nephropathy Moderate
Fibrosis Minimal
Fibrosis Mild
Focal Cellular Change Mild
Granuloma Minimal
Hyperplasia Minimal
Dilatation Minimal
Necrosis Mild
Adenoma
Angiectasis Moderate
Hyperplasia Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 878

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Stomach - Forestomach
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Glandular

- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thymus

- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Ovary
- * Skin
- * Trachea

OBSERVATIONS

- * Kidney Nephropathy Moderate
- * Liver Focal Cellular Change Minimal
- Granuloma Mild
- Bile Duct Hyperplasia Minimal
- Note: [GRANULOMA] TGLs = 6,21
- * Mammary Gland Dilatation Mild
- * Pituitary Gland Pars Distalis Adenoma
- Angiectasis Moderate
- Note: ANGIECTASIS TGLs = 2-1
- Note: ADENOMA TGLs = 2-1
- * Spleen Hyperplasia Lymphoid, Histiocytic, Minimal
- * Thyroid Gland C Cell Adenoma
- * Uterus Endometrium Hyperplasia Cystic, Minimal
- Endometrium Polyp Stromal
- Note: POLYP STROMAL TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 879

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Pituitary Gland

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Lymphoid, Histiocytic, Mild
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 1-21		
Note: FIBROADENOMA	TGLs = 2-22		
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 880

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Intestine Small - Ileum

OBSERVATIONS

* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Dilatation	Mild
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS TGLs = 1-21			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Moderate
Note: [HYPERPLASIA] TGLs = 1			
Note: ANGIECTASIS TGLs = 2-1			
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 881

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS TGLs = 4-22			
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,21,23			
[Fibrosis TGLS = 6-23]			
[Hyperplasia TGLS = 3-21]			
* Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Mild
Note: HYPERPLASIA TGLs = 5-7			
* Mammary Gland		Dilatation	Minimal
Note: DILATATION TGLs = 1-8			
* Ovary	Periovarn Tiss	Cyst	Mild
Note: CYST TGLs = 2-7			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 882

TRT#: 15

SEX: Female

DAY ON TEST: 714

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 8-1-1		
Note: LEUKEMIA MONUC	TGLs = 8-1-1		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Marked
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Minimal
Note: LEUKEMIA MONUC	TGLs = 4-6,10-21		
[Leukemia Mononuclear	TGLs = 4-6]		
* Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2-1		
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-5-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 882

TRT#: 15

SEX: Female

DAY ON TEST: 714

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043931

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 7-8-1		
Note: LEUKEMIA MONUC	TGLs = 9-3		
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-8		
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Adenoma	
		Angiectasis	Mild
Note: [ADENOMA]	TGLs = 1		
Note: ANGIECTASIS	TGLs = 6-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Stomach		Leukemia Mononuclear	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-22		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland		Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 883

TRT#: 15

SEX: Female

DAY ON TEST: 452

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A86037946

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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Angiectasis	Moderate
	Medulla	Developmental Malformation	Minimal
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Carcinoma	
	[Carcinoma TGLS = 2-21]		
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Focal Cellular Change	Minimal
		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Marked
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
	Note: HYPERPLASIA TGLs = 1-8		
	Note: DILATATION TGLs = 1-8		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 883

TRT#: 15

SEX: Female

DAY ON TEST: 452

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A86037946

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 884

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Minimal
* Bone Marrow		Hypercellularity	Moderate
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 4-1		
* Islets, Pancreatic		Carcinoma	
Note: CARCINOMA	TGLs = 2-22		
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-21		
Mesentery		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 3-1		
Note: ANGIECTASIS	TGLs = 3-1		
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 884

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043932

ORGAN AND ACCOUNTABLE SITE STATUS

Forestomach

Inflammation

Chronic, Moderate

Forestomach

Ulcer

Marked

Note: ULCER TGLs = 6-23

Note: HYPERPLASIA TGLs = 6-23

Note: INFLAMMATION TGLs = 6-23

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 885	TRT#: 15	SEX: Female	DAY ON TEST: 719
	DOSE: 0.00500%CHLORAMI	DISP: Moribund Sacrifice	HISTO: A87043933

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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Medulla	Hyperplasia	Minimal
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 2-1		
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 3-1		
Note: ANGIECTASIS	TGLs = 3-1		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 886

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Nose	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Angiectasis	Mild
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Minimal
* Pancreas		Cytoplasmic Alteration	Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		
* Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 2-3		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Chloraminated water
 CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
 Time Report Requested: 02:23:25
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 887 TRT#: 15 SEX: Female DAY ON TEST: 731
 DOSE: 0.00500%CHLORAMI DISP: Terminal Sacrifice HISTO: A87043935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: [GRANULOMA] TGLs = 6,23 [Hepatodiaphragmatic Nodule TGLS = 6-24] [Leukemia Mononuclear TGLS = 4-23]			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21 Note: DILATATION TGLs = 2-22			
* Nose		Fungus	Moderate
		Inflammation	Suppurative, Moderate
* Ovary	Corpus Luteum, Thecal Cell	Hyperplasia	Moderate
* Pituitary Gland		Angiectasis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 887

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043935

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS TGLs = 5-1	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 888

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lymph Node - Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone		Hyperostosis	Mild
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Congestion	Mild
* Lung			
Note: CONGESTION	TGLs = 2-2		
* Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
* Mammary Gland		Dilatation	Mild
* Thyroid Gland	C Cell	Adenoma	
Vagina		Cyst	Marked
		Inflammation	Suppurative, Moderate
Note: CYST	TGLs = 1-7		
Note: INFLAMMATION	TGLs = 1-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 889

TRT#: 15

SEX: Female

DAY ON TEST: 656

DOSE: 0.00500%CHLORAMI

DISP: Natural Death

HISTO: A87043937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - Medulla | * 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 | * Lymph Node - Mandibular | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach - Forestomach | * Stomach - Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|--------------------|---------------|-----------------------|-----------------------|
| * Brain | | Compression | Mild |
| Note: COMPRESSION | TGLs = 6-1 | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Biliar Tract | Fibrosis | Minimal |
| | | Focal Cellular Change | Mild |
| | | Granuloma | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | | Congestion | Marked |
| * Lymph Node | Mesenteric | Hyperplasia | Mild |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Moderate |
| | | Inflammation | Suppurative, Moderate |
| Note: INFLAMMATION | TGLs = 3-8 | | |
| Note: DILATATION | TGLs = 3-8 | | |
| Note: HYPERPLASIA | TGLs = 3-8 | | |
| Mesentery | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Mild |
| Note: ANGIECTASIS | TGLs = 5-1 | | |
| Note: ADENOMA | TGLs = 5-1 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 889

TRT#: 15

SEX: Female

DAY ON TEST: 656

DOSE: 0.00500%CHLORAMI

DISP: Natural Death

HISTO: A87043937

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 890

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 4-24]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 891

TRT#: 15

SEX: Female

DAY ON TEST: 730

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone Marrow	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS TGLs = 5-22			
* Clitoral Gland		Degeneration	Cystic, Mild
[Degeneration TGLS = 2-8]			
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
[Nephropathy TGLS = 3-5]			
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatocellular Adenoma	
Note: [GRANULOMA] TGLs = 6,21			
[Hepatocellular Adenoma TGLS = 4-21]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland		Angiectasis	Minimal
Note: ANGIECTASIS TGLs = 6-1			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 892 **TRT#:** 15 **SEX:** Female **DAY ON TEST:** 540
DOSE: 0.00500%CHLORAMI **DISP:** Moribund Sacrifice **HISTO:** A87043940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Brain	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Kidney
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Gland Note: CONGESTION TGLs = 3-10	Cortex	Congestion	Mild
* Bone Note: HYPEROSTOSIS TGLs = 6-22		Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland Note: ADENOMA TGLs = 1-21		Adenoma	
* Liver Note: LEUKEMIA MONUC TGLs = 4-6	Centrilobular Biliar Tract	Atrophy Fibrosis Focal Cellular Change	Mild Minimal Minimal
* Lung Note: LEUKEMIA MONUC TGLs = 5-3	Bile Duct	Hyperplasia Hyperplasia Leukemia Mononuclear	Minimal Multifocal, Minimal
* Lymph Node	Mandibular Mediastinal Mesenteric	Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 892

TRT#: 15

SEX: Female

DAY ON TEST: 540

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043940

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA TGLs = 7-1

Note: ANGIECTASIS TGLs = 7-1

* Spleen

Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-6

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 893

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone		Hyperostosis	Mild
* Brain		Compression	Moderate
[Compression TGLS = 4-1]			
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
		Infiltration Cellular	Mixed Cell, Mild
Note: [GRANULOMA] TGLs = 6,22 [Hepatodiaphragmatic Nodule TGLS = 3-22]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA TGLs = 1-21 [Dilatation TGLS = 5-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
[Adenoma TGLS = 2-1] [Angiectasis TGLS = 2-1]			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 893

TRT#: 15

SEX: Female

DAY ON TEST: 731

DOSE: 0.00500%CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043941

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 894

TRT#: 15

SEX: Female

DAY ON TEST: 662

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Compression	Marked
[Compression TGLS = 3-1]			
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1-1]		Angiectasis	Marked
[Angiectasis TGLS = 2-1-1]			
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 895

TRT#: 15

SEX: Female

DAY ON TEST: 726

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Brain
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Nose
- * Salivary Glands
- * Thymus
- * Uterus

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Ovary
- * Spleen
- * Thyroid Gland

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Pancreas
- * Stomach - Forestomach
- * Trachea

- * Bone Marrow
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Glandular
- * Urinary Bladder

OBSERVATIONS

* Clitoral Gland

Adenoma
Inflammation

Suppurative, Moderate

Note: ADENOMA TGLs = 4-8-1

Note: INFLAMMATION TGLs = 4-8-1

* Kidney

Nephropathy

Minimal

* Liver

Biliar Tract

Fibrosis
Focal Cellular Change
Granuloma
Hyperplasia

Minimal
Minimal
Mild
Minimal

Note: [GRANULOMA] TGLs = 6,23

Note: FOCAL CELL CH TGLs = 6-23

* Lymph Node

Mandibular

Hyperplasia

Mild

Note: HYPERPLASIA TGLs = 2-8

* Mammary Gland

Dilatation
Fibroadenoma

Mild
Multiple

Note: DILATATION TGLs = 1-8

* Pituitary Gland

Angiectasis

Minimal

Note: ANGIECTASIS TGLs = 8-1

* Skin

Epidermis

Hyperkeratosis
Hyperplasia
Inflammation

Mild
Mild
Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 895

TRT#: 15

SEX: Female

DAY ON TEST: 726

DOSE: 0.00500%CHLORAMI

DISP: Moribund Sacrifice

HISTO: A87043943

ORGAN AND ACCOUNTABLE SITE STATUS

Note: HYPERPLASIA TGLs = 7-24

Note: HYPERKERATOSIS TGLs = 7-24

Note: INFLAMMATION TGLs = 7-24

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 906

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Intestine Small Note: ADENOMA TGLs = 1-21	Jejunum	Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
Note: [GRANULOMA] TGLs = 6,22 [Hyperplasia TGLS = 2-22]	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Hyperplasia	Mild
* Mammary Gland		Dilatation	Minimal
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Ovary	Follicle	Cyst	Minimal
* Pituitary Gland		Angiectasis	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 907

TRT#: 19

SEX: Female

DAY ON TEST: 669

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Carcinoma	
Note: CARCINOMA	TGLs = 1-21		
* Intestine Large	Colon	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lymph Node	Mediastinal	Angiectasis	Moderate
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Hyperplasia	Lymphoid, Histiocytic, Mild
Note: HEMA CELL PROL	TGLs = 2-6		
* Thyroid Gland	Follicular Cel	Adenoma	
Note: ADENOMA	TGLs = 3-3.1		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 908

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
[Dilatation TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 2-1			
[Adenoma TGLS = 2-1]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 3-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 909

TRT#: 19

SEX: Female

DAY ON TEST: 666

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Clitoral Gland
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hypercellularity	Moderate
* Brain		Compression	Marked
Note: COMPRESSION TGLs = 6-1			
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 22			
[Hyperplasia TGLS = 4-22]			
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
		Hyperplasia	Mild
Note: DILATATION TGLs = 1-21,7-8			
Note: FIBROADENOMA TGLs = 1-21			
Note: HYPERPLASIA TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA TGLs = 5-1			
Note: ANGIECTASIS TGLs = 5-1			
* Uterus		Intussusception	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 909

TRT#: 19

SEX: Female

DAY ON TEST: 666

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043827

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Polyp Stromal

Note: INTUSSUSCEPTN TGLs = 3-7

Note: POLYP STROMAL TGLs = 2-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 910

TRT#: 19

SEX: Female

DAY ON TEST: 638

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland Note: FOCAL CELL CH TGLs = 6-10	Cortex	Focal Cellular Change	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 7-6			
* Lung		Hyperplasia	Macrophage, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 8-2			
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 9-3 [Leukemia Mononuclear TGLS = 5-22]			
* Mammary Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 910	TRT#: 19	SEX: Female	DAY ON TEST: 638
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043828

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION	TGLs = 1-8-1		Fibroadenoma	
Mesentery			Hyperplasia	Mild
* Pituitary Gland		Pars Distalis	Leukemia Mononuclear	
			Adenoma	
			Angiectasis	Moderate
Note: ADENOMA	TGLs = 13-1			
Note: ANGIECTASIS	TGLs = 13-1			
* Skin			Inflammation	Chronic, Mild
Note: INFLAMMATION	TGLs = 10-23,12-24			
* Spleen			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6			
* Thyroid Gland		C Cell	Hyperplasia	Mild
* Uterus		Endometrium	Hyperplasia	Cystic, Mild
Vagina			Cyst	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 911

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lymph Node - Mandibular	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Hyperplasia Inflammation	Moderate Suppurative, Moderate
Note: INFLAMMATION TGLs = 1-8			
Note: HYPERPLASIA TGLs = 1-8			
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,22			
[Hyperplasia TGLS = 4-22]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node	Mesenteric	Hyperplasia	Lymphoid, Mild
	Pancreatic	Hyperplasia	Lymphoid, Moderate
Note: HYPERPLASIA TGLs = 5-7			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION TGLs = 2-8-1			
Note: FIBROADENOMA TGLs = 3-21			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 911	TRT#: 19	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043829

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Cyst	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 912

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043830

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
* Lymph Node - Mandibular	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 5-8			
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Hemorrhage	Moderate
	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 912

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043830

ORGAN AND ACCOUNTABLE SITE STATUS

Note: POLYP STROMAL TGLs = 1-7

Note: HEMORRHAGE TGLs = 2-7

Vagina

Exudate

Mucous, Mild

Note: EXUDATE TGLs = 3-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 913

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Adenoma	
Eye		Cataract	Mild
	Retina	Degeneration	Moderate
	Cornea	Inflammation	Chronic, Mild
Note: INFLAMMATION TGLs = 1-21			
* Kidney		Nephropathy	Moderate
* Liver		Atrophy	Focal, Mild
	Biliar Tract	Fibrosis	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,22			
[Atrophy TGLS = 2-22]			
[Fibrosis TGLS = 2-22]			
[Hyperplasia TGLS = 2-22]			
* Lymph Node	Pancreatic	Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-7-1			
* Mammary Gland		Dilatation	Minimal
Note: DILATATION TGLs = 4-8			
* Pituitary Gland		Angiectasis	Moderate
	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Minimal
* Thymus		Hyperplasia	Lymphoid, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 913

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043831

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 914

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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 - Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Hyperostosis	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 3-8-1		
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
		Cyst	Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-6		
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 914

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043832

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 915

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
Note: INFLAMMATION	TGLs = 5-8-1		
Note: HYPERPLASIA	TGLs = 5-8-1		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Mild
Note: DILATATION	TGLs = 2-22		
Note: FIBROADENOMA	TGLs = 1-21		
Note: HYPERPLASIA	TGLs = 2-22		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 915

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043833

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

Angiectasis

Marked

Note: ADENOMA TGLs = 4-1

Note: ANGIECTASIS TGLs = 4-1

* Spleen

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 916

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Minimal
		Granuloma	Mild
* Lung		Inflammation	Chronic, Focal, Minimal
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION TGLs = 5-8 [Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
		Hyperplasia	Focal, Moderate
Note: ANGIECTASIS TGLs = 4-1			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Squamous Cell Papilloma	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 917

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Heart | * Intestine Large - Cecum | * Intestine Large - Rectum | * Intestine Small - Duodenum |
| * Intestine Small - Ileum | * Intestine Small - Jejunum | * Islets, Pancreatic | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach - Forestomach | * Stomach - Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|----------------------|---------------|----------------------|------------------|
| * Adrenal Gland | Cortex | Leukemia Mononuclear | |
| | Medulla | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Intestine Large | Colon | Parasite Metazoan | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Centrilobular | Atrophy | Mild |
| | Biliar Tract | Fibrosis | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Multifocal, Mild |
| | | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 6-6-1 | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node | Inguinal | Leukemia Mononuclear | |
| | Mandibular | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| Note: LEUKEMIA MONUC | TGLs = 5-22 | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| Note: FIBROADENOMA | TGLs = 1-21 | | |
| Note: DILATATION | TGLs = 8-8 | | |
| Mesentery | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 917	TRT#: 19	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043835

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Mild
Note: ADENOMA	TGLs = 7-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Thymus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 918

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,21 [Hyperplasia TGLS = 2-21]			
* Lymph Node	Mediastinal	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 3-3			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 4-8			
* Pituitary Gland		Cyst	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Moderate
Note: CYST TGLs = 1-7-1			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 919

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea

OBSERVATIONS

* Bone		Hyperostosis	Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Atrophy	Focal, Minimal
* Pancreas		Cyst	Moderate
* Pituitary Gland			
Note: CYST	TGLs = 2-1		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Moderate
Note: CYST	TGLs = 1-7-1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 920

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lymph Node - Mandibular	* Nose	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Accessory Adrenal Cortical Nodule	Mild
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large	Colon	Parasite Metazoan	Mild
* Kidney		Nephropathy	Moderate
Note: NEPHROPATHY TGLs = 4-5			
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Moderate
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-6-1			
Note: FOCAL CELL CH TGLs = 6-21			
Note: HYPERPLASIA TGLs = 9-22			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mediastinal	Hyperplasia	Histiocytic, Moderate
	Mesenteric	Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 7-3			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-8-1			
Mesentery		Leukemia Mononuclear	
* Ovary	Follicle	Cyst	Marked
Note: CYST TGLs = 2-7-1			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 920	TRT#: 19	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043838

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Marked
Note: ANGIECTASIS	TGLs = 8-1		
Note: ADENOMA	TGLs = 8-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 921

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Bone Marrow	* Esophagus
* Heart	* 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	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Moderate
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 2-1-1		
* Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-21		
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
Note: ANGIECTASIS	TGLs = 3-1		
Note: ADENOMA	TGLs = 3-1		
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 922

TRT#: 19

SEX: Female

DAY ON TEST: 719

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Pancreas
- * Stomach - Glandular
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Parathyroid Gland
- * Thymus

- * Bone
- * Heart
- * Intestine Small - Duodenum
- * Nose
- * Skin
- * Thyroid Gland

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Ovary
- * Stomach - Forestomach
- * Trachea

OBSERVATIONS

- * Bone Marrow
- * Kidney

- Leukemia Mononuclear
- Atrophy
- Hyperplasia
- Inflammation
- Nephropathy

- Mild
- Mild
- Suppurative, Mild
- Moderate

Note: ATROPHY TGLs = 4-5
 Note: NEPHROPATHY TGLs = 4-5

- * Liver

- Centrilobular
- Biliar Tract
- Bile Duct

- Atrophy
- Fatty Change
- Fibrosis
- Hepatodiaphragmatic Nodule
- Hyperplasia
- Hyperplasia
- Leukemia Mononuclear

- Mild
- Moderate
- Mild
- Moderate
- Mild
- Multifocal, Mild

Note: LEUKEMIA MONUC TGLs = 5-6-1
 Note: ANOM HEPAT LOB TGLs = 6-21

- * Lung
- * Lymph Node

- Mandibular
- Mediastinal
- Mesenteric

- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear
- Leukemia Mononuclear

Note: LEUKEMIA MONUC TGLs = 2-8

- * Mammary Gland

- Dilatation

- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 922	TRT#: 19	SEX: Female	DAY ON TEST: 719
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043840

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION Mesentery	TGLs = 1-8-1		Leukemia Mononuclear	
* Pituitary Gland		Pars Distalis	Adenoma	
			Angiectasis	Moderate
Note: ANGIECTASIS Note: ADENOMA	TGLs = 8-1 TGLs = 8-1			
* Salivary Glands			Atrophy	Mild
			Focal Cellular Change	Minimal
* Spleen			Hyperplasia	Lymphoid, Histiocytic, Mild
			Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6			
* Uterus		Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 923

TRT#: 19

SEX: Female

DAY ON TEST: 614

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Islets, Pancreatic	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 5-2			
* Lymph Node	Mandibular	Inflammation	Suppurative, Mild
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 1-8			
Note: INFLAMMATION TGLs = 1-8			
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
Oviduct		Dilatation	Moderate
Note: DILATATION TGLs = 4-7			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 923	TRT#: 19	SEX: Female	DAY ON TEST: 614
	DOSE: 0.0275% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043841

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Angiectasis	Mild
		Cyst	Minimal
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 924

TRT#: 19

SEX: Female

DAY ON TEST: 698

DOSE: 0.0275% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Moderate
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
Note: ANOM HEPAT LOB TGLs = 6-22			
* Mammary Gland		Dilatation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 5-1			
Note: ADENOMA TGLs = 4-1			
* Uterus		Hemorrhage	Moderate
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-21			
Note: HEMORRHAGE TGLs = 1-7			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 925

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
* Lymph Node	Mesenteric	Angiectasis	Mild
* Mammary Gland		Dilatation	Minimal
Vagina		Cyst	Marked
		Inflammation	Suppurative, Mild

Note: CYST TGLs = 1-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 926

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Glioma Malignant	
Note: GLIOMA MAL	TGLs = 2-1		
* Clitoral Gland		Hyperplasia	Mild
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: ANOM HEPAT LOB	TGLs = 3-22		
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION	TGLs = 1-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 927

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 8-6		
Note: ANOM HEPAT LOB	TGLs = 9-24		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Adenoma	
		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-21		
Note: ADENOMA	TGLs = 3-22		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 927

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043845

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION TGLs = 1-8-1			
* Pituitary Gland		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 10-1,11-1			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 6-6			
Note: FIBROSIS TGLs = 7-23			
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 5-7			
Vagina		Cyst	Mild
Note: CYST TGLs = 4-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 928

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Brain	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Bone		Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Adenoma	
		Inflammation	Suppurative, Moderate
Note: ADENOMA	TGLs = 1-21		
Note: INFLAMMATION	TGLs = 1-21		
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Lung		Leukemia Mononuclear	
* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-3		
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 928	TRT#: 19	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0275% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043846

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 4-1		
Note: ADENOMA	TGLs = 4-1		
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
* Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 2-7-1		
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 929

TRT#: 19

SEX: Female

DAY ON TEST: 730

DOSE: 0.0275% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hypercellularity	Mild
* Clitoral Gland		Adenoma	
Note: ADENOMA TGLs = 1-21			
* Islets, Pancreatic		Hyperplasia	Moderate
Note: [HYPERPLASIA] TGLs = 7			
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION TGLs = 3-8			
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Thyroid Gland		Degeneration	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 930

TRT#: 19

SEX: Female

DAY ON TEST: 609

DOSE: 0.0275% CHLORINE

DISP: Natural Death

HISTO: A87043848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* 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	* Nose	* Ovary	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	Vagina

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Heart	Pericardium	Dilatation	Mild
		Edema	Mild
		Thrombosis	Moderate
Note: THROMBUS TGLs = 6-5-1			
Note: EDEMA TGLs = 7-5-1			
Note: DILATATION TGLs = 8-5-1			
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Moderate
		Fatty Change	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Lung		Hemorrhage	Mild
		Leukemia Mononuclear	
Note: HEMORRHAGE TGLs = 5-2			
Note: LEUKEMIA MONUC TGLs = 5-2			
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 930	TRT#: 19	SEX: Female	DAY ON TEST: 609
	DOSE: 0.0275% CHLORINE	DISP: Natural Death	HISTO: A87043848

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 931

TRT#: 20

SEX: Female

DAY ON TEST: 95

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Trachea

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus
* Uterus

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Liver
* Mammary Gland
* Parathyroid Gland
* Spleen
* Thyroid Gland

OBSERVATIONS

Harderian Gland
* Kidney

Hyperplasia
Mineralization

Lymphoid, Minimal
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 932

TRT#: 20

SEX: Female

DAY ON TEST: 93

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Stomach - Forestomach	* Stomach - Glandular
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OBSERVATIONS

Harderian Gland	Hyperplasia	Lymphoid, Minimal
	Inflammation	Chronic, Minimal
* Kidney	Mineralization	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 933

TRT#: 20

SEX: Female

DAY ON TEST: 95

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

Harderian Gland	Acinus	Dilatation	Minimal
* Kidney		Mineralization	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 934

TRT#: 20

SEX: Female

DAY ON TEST: 95

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

Harderian Gland	Acinus	Dilatation	Mild
		Hyperplasia	Lymphoid, Minimal
		Inflammation	Chronic, Mild
* Liver		Granuloma	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 935

TRT#: 20

SEX: Female

DAY ON TEST: 93

DOSE: 0.0275% 3 SSAC

DISP: Scheduled Sacrifice

HISTO: A85034461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Ovary
* Salivary Glands
* Stomach - Glandular
* Uterus

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Pancreas
* Skin
* Thymus

* Bone
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Mammary Gland
* Parathyroid Gland
* Spleen
* Trachea

* Bone Marrow
* Heart
* Intestine Small - Duodenum
* Lung
* Nose
* Pituitary Gland
* Stomach - Forestomach
* Urinary Bladder

OBSERVATIONS

* Kidney
* Liver
* Thyroid Gland

Mineralization
Granuloma
Ultimobranchial Cyst

Mild
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 936

TRT#: 19

SEX: Female

DAY ON TEST: 457

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Adrenal Gland - 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
- * Islets, Pancreatic
- * Kidney
- * Lymph Node - Mandibular
- * Lymph Node - Mesenteric
- * Mammary Gland
- * Pancreas
- * Parathyroid Gland
- * Salivary Glands
- * Skin
- * Spleen
- * Stomach - Forestomach
- * Stomach - Glandular
- * Thymus
- * Trachea
- * Urinary Bladder
- * Uterus

OBSERVATIONS

- * Clitoral Gland
 - Degeneration
 - Hyperplasia
 - Cystic, Moderate
 - Moderate
- Note: DEGEN TGLs = 2-8
[Hyperplasia TGLS = 2-8]
- Harderian Gland
 - Hyperplasia
 - Lymphoid, Mild
- * Liver
 - Focal Cellular Change
 - Minimal
 - Granuloma
 - Mild
 - Bile Duct
 - Hyperplasia
 - Minimal
 - Alveolar Epith
 - Hyperplasia
 - Minimal
 - Mediastinal
 - Angiectasis
 - Mild
 - * Lung
 - Fungus
 - Mild
 - Inflammation
 - Suppurative, Mild
 - * Ovary
 - Periovarn Tiss
 - Cyst
 - Mild
 - [Cyst TGLS = 1-7]
 - * Pituitary Gland
 - Angiectasis
 - Minimal
 - Focal Cellular Change
 - Mild
 - * Thyroid Gland
 - Pars Distalis
 - Focal Cellular Change
 - Mild
 - C Cell
 - Hyperplasia
 - Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 937

TRT#: 19

SEX: Female

DAY ON TEST: 459

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Focal Cellular Change	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 938

TRT#: 19

SEX: Female

DAY ON TEST: 458

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lymph Node - Mandibular	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Mild
Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: ANOM HEPAT LOB TGLs = 3-22			
* Lung		Hyperplasia	Macrophage, Minimal
		Pigmentation	Minimal
Note: HYPERPLASIA TGLs = 2-2			
Note: PIGMENT TGLs = 2-2			
* Lymph Node	Mediastinal	Hyperplasia	Histiocytic, Moderate
	Mesenteric	Hyperplasia	Histiocytic, Mild
Note: HYPERPLASIA TGLs = 1-21			
* Nose	Respirat Epith	Degeneration	Mucoid, Mild
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Focal Cellular Change	Mild
Note: ANGIECTASIS TGLs = 4-1			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 938

TRT#: 19

SEX: Female

DAY ON TEST: 458

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037938

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 939

TRT#: 19

SEX: Female

DAY ON TEST: 457

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large - Cecum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Marked
* Intestine Large	Colon	Parasite Metazoan	Minimal
	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Mild
Note: ANOM HEPAT LOB TGLs = 2-21			
* Lymph Node	Mediastinal	Angiectasis	Minimal
* Ovary		Angiectasis	Mild
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
Note: HYPERPLASIA TGLs = 3-1			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Mild

[Hydrometra TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 940

TRT#: 19

SEX: Female

DAY ON TEST: 458

DOSE: 0.0275% CHLORINE

DISP: Scheduled Sacrifice

HISTO: A86037940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Myelofibrosis	Minimal
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lymph Node	Mediastinal	Angiectasis	Mild
* Pituitary Gland		Angiectasis	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Hydrometra	Mild
	Endometrium	Hyperplasia	Cystic, Mild

[Hydrometra TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 941

TRT#: 23

SEX: Female

DAY ON TEST: 653

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A87043967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Congestion	Moderate
		Nephropathy	Mild
* Liver		Congestion	Moderate
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
	Bile Duct	Hyperplasia	Minimal
* Lung		Congestion	Moderate
* Lymph Node	Mesenteric	Angiectasis	Moderate
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-8-1		
* Nose		Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 942

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node - Mesenteric

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Hyperplasia	Mild
Note: HYPERPLASIA TGLs = 3-8			
* Kidney		Fibrosis	Moderate
Note: FIBROSIS TGLs = 9-22		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
		Granuloma	Mild
Note: [GRANULOMA] TGLs = 6,21			
* Lymph Node	Mediastinal	Hyperplasia	Histiocytic, Moderate
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-8-1			
* Pituitary Gland	Pars Distalis	Adenoma	
Note: ADENOMA TGLs = 7-1		Angiectasis	Mild
Note: ANGIECTASIS TGLs = 7-1			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Marked
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 942

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043968

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 943

TRT#: 23

SEX: Female

DAY ON TEST: 699

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Large - Rectum	* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum
* Islets, Pancreatic	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Brain		Astrocytoma Nos	
		Compression	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Moderate
	Centrilobular	Leukemia Mononuclear	
		Necrosis	Mild
		Thrombosis	Mild
Note: LEUKEMIA MONUC TGLs = 4-6 Note: NECROSIS TGLs = 4-6 [Hyperplasia TGLS = 8-23] [Leukemia Mononuclear TGLS = 5-22,4-6] [Necrosis TGLS = 5-22]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 943	TRT#: 23	SEX: Female	DAY ON TEST: 699
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043969

ORGAN AND ACCOUNTABLE SITE STATUS

Note: DILATATION * Pituitary Gland	TGLs = 2-8-1	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ANGIECTASIS Note: ADENOMA	TGLs = 6-1 TGLs = 6-1			
* Skin			Basal Cell Carcinoma	
Note: BASAL CEL CARC * Spleen	TGLs = 1-21		Leukemia Mononuclear	
Note: LEUKEMIA MONUC * Uterus	TGLs = 3-6	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 944

TRT#: 23

SEX: Female

DAY ON TEST: 694

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Cortex
- * Esophagus
- * Intestine Small - Duodenum
- * Lung
- * Pancreas
- * Stomach - Forestomach
- * Urinary Bladder

- * Adrenal Gland - Medulla
- * Heart
- * Intestine Small - Ileum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Glandular

- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Jejunum
- * Nose
- * Salivary Glands
- * Thymus

- * Clitoral Gland
- * Intestine Large - Colon
- * Islets, Pancreatic
- * Ovary
- * Skin
- * Trachea

OBSERVATIONS

- * Bone
Note: HYPEROSTOSIS TGLs = 4-23
- * Bone Marrow
- * Intestine Large
- * Kidney
- * Liver

Note: HEPATOCLR ADEN TGLs = 2-22
Note: [GRANULOMA] TGLs = 6,24,25
[Leukemia Mononuclear TGLs = 6-25]
- * Lymph Node
- * Mammary Gland

Note: FIBROADENOMA TGLs = 1-21
- * Pituitary Gland

Note: ADENOMA TGLs = 3-1

- Rectum
- Biliar Tract
- Bile Duct
- Mandibular
- Mediastinal
- Pars Distalis

- Hyperostosis
- Leukemia Mononuclear
- Parasite Metazoan
- Nephropathy
- Fibrosis
- Granuloma
- Hepatocellular Adenoma
- Hyperplasia
- Leukemia Mononuclear
- Necrosis
- Leukemia Mononuclear
- Leukemia Mononuclear
- Dilatation
- Fibroadenoma
- Adenoma
- Angiectasis

- Minimal
- Minimal
- Minimal
- Mild
- Mild
- Mild
- Mild
- Focal, Mild
- Mild
- Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 944	TRT#: 23	SEX: Female	DAY ON TEST: 694
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043970

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 3-1		
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 945

TRT#: 23

SEX: Female

DAY ON TEST: 698

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Brain
* Intestine Large - Colon
* Islets, Pancreatic
* Ovary
* Skin
* Thyroid Gland

* Adrenal Gland - Medulla
* Esophagus
* Intestine Small - Duodenum
* Lung
* Pancreas
* Stomach - Forestomach
* Trachea

* Bone
* Heart
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Parathyroid Gland
* Stomach - Glandular
* Urinary Bladder

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Jejunum
* Nose
* Salivary Glands
* Thymus

MISSING

* Lymph Node - Mesenteric

OBSERVATIONS

Blood Vessel
Mesent Artery
Mesent Artery
Mesent Artery
Note: THROMBUS TGLs = 10-5
Note: INFLAMMATION TGLs = 7-7,10-5
* Clitoral Gland
Note: INFLAMMATION TGLs = 3-8
Eye
Note: LENS IS MISSING
Note: DEGEN TGLs = 1-21
* Intestine Large
* Kidney
* Liver
Note: ANOM HEPAT LOB TGLs = 12-25
Note: [GRANULOMA] TGLs = 6,24,25
* Lymph Node
Note: ANGIECTASIS TGLs = 9-3

Aneurysm
Inflammation
Thrombosis
Inflammation
Degeneration
Parasite Metazoan
Nephropathy
Focal Cellular Change
Granuloma
Hepatodiaphragmatic Nodule
Hyperplasia
Bile Duct
Mediastinal
Angiectasis

Moderate
Chronic, Moderate
Moderate
Suppurative, Minimal
Moderate
Minimal
Minimal
Mild
Mild
Moderate
Minimal
Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 945	TRT#: 23	SEX: Female	DAY ON TEST: 698
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043971

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Dilatation Fibroadenoma	Mild
Note: FIBROADENOMA TGLs = 2-22			
Note: DILATATION TGLs = 4-23			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Vagina		Cyst Inflammation	Marked Suppurative, Marked
Note: INFLAMMATION TGLs = 5-7-1			
Note: CYST TGLs = 5-7-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 946

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,21 [Fibrosis TGLS = 2-21]			
* Lung		Inflammation	Pyogranulomat, Mild
Note: INFLAMMATION TGLs = 1-2-1			
* Lymph Node	Mediastinal	Angiectasis	Mild
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 947

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone Marrow	* Esophagus	* Heart
* 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	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Gland	Bilateral, Medulla	Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLS = 4-24]		
* Bone		Hyperostosis	Mild
* Brain		Compression	Mild
	[Compression TGLS = 6-1]		
* Clitoral Gland		Inflammation	Suppurative, Marked
	[Inflammation TGLS = 3-23]		
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Mild
		Granuloma	Minimal
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
	[Dilatation TGLS = 2-22]		
	[Fibroadenoma TGLS = 1-21]		
* Ovary	Follicle	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
	[Adenoma TGLS = 5-1]		
	[Angiectasis TGLS = 5-1]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 947

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043973

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 948

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043974

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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Hyperplasia Leukemia Mononuclear	Mild Minimal
* Bone Marrow		Fibrosis	Moderate
* Kidney		Nephropathy	Mild
Note: FIBROSIS TGLs = 2-22,3-22			
* Liver	Biliar Tract	Fibrosis Focal Cellular Change Granuloma	Minimal Mild Moderate
	Bile Duct	Hyperplasia Leukemia Mononuclear Necrosis	Minimal Focal, Mild
Note: [GRANULOMA] TGLs = 6,24,25 [Hyperplasia TGLS = 4-24]			
* Mammary Gland		Dilatation Fibroadenoma	Mild
Note: FIBROADENOMA TGLs = 1-21			
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis Leukemia Mononuclear	Mild
* Spleen			
* Uterus	Endometrium Endometrium	Hyperplasia Polyp Stromal	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 948

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043974

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 949

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Medulla	Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
Note: ADENOMA	TGLs = 1-8		
* Kidney		Nephropathy	Moderate
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 2-1		
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 950

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Minimal
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 7-6,4-6		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-2		
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
Note: DILATATION	TGLs = 2-8-1		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 6-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 950	TRT#: 23	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0140% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043976

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 6-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 951

TRT#: 23

SEX: Female

DAY ON TEST: 711

DOSE: 0.0140% CHLORINE

DISP: Natural Death

HISTO: A87043977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach - Forestomach	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Bone		Hyperostosis	Moderate
Note: HYPEROSTOSIS TGLs = 10-24			
* Bone Marrow		Leukemia Mononuclear	
Ear	Pinna	Hemorrhage	Minimal
	Pinna	Inflammation	Chronic, Minimal
Note: HEMORRHAGE TGLs = 9-23			
Note: INFLAMMATION TGLs = 9-23			
* Kidney		Fibrosis	Moderate
		Inflammation	Suppurative, Minimal
		Nephropathy	Moderate
Note: FIBROSIS TGLs = 5-22			
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Minimal
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: HYPERPLASIA TGLs = 7-6-1			
Note: ATROPHY TGLs = 7-6-1			
[Hyperplasia TGLs = 7-6-1]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 951	TRT#: 23	SEX: Female	DAY ON TEST: 711
	DOSE: 0.0140% CHLORINE	DISP: Natural Death	HISTO: A87043977

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 8-3	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Keratoacanthoma	
Note: KERATOACANTHMA TGLs = 1-21			
* Spleen		Hemorrhage	Mild
	Capsule	Inflammation	Chronic, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6			
Note: HEMORRHAGE TGLs = 4-25			
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 952

TRT#: 23

SEX: Female

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Intestine Large - Rectum

OBSERVATIONS

* Adrenal Gland	Cortex Medulla	Focal Cellular Change Pheochromocytoma Benign	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis Focal Cellular Change Granuloma	Minimal Mild Mild
	Bile Duct	Hyperplasia Infiltration Cellular	Minimal Mixed Cell, Minimal
* Mammary Gland		Dilatation Fibroadenoma	Minimal
Note: FIBROADENOMA	TGLs = 1-21		
* Ovary	Follicle	Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Minimal
* Spleen		Fibrosis Leukemia Mononuclear	Minimal
* Uterus	Endometrium Endometrium	Hyperplasia Polyp Stromal	Cystic, Moderate
Note: POLYP STROMAL	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 952

TRT#: 23

SEX: Female

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043978

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 953

TRT#: 23

SEX: Female

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Minimal
		Granuloma	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
* Mammary Gland		Adenoma	
		Dilatation	Minimal
Note: ADENOMA TGLs = 1-21			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
	Endometrium	Polyp Stromal	
Note: POLYP STROMAL TGLs = 2-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 954

TRT#: 23

SEX: Female

DAY ON TEST: 667

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hypercellularity	
* Kidney		Nephropathy	Minimal
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
		Hematopoietic Cell Proliferation	Mild
		Infiltration Cellular	Mixed Cell, Mild
[Focal Cellular Change TGLS = 3-6]			
* Mammary Gland		Dilatation	Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Minimal
Note: HYPERPLASIA TGLs = 4-4-1			
Note: INFLAMMATION TGLs = 4-4-1			
* Thyroid Gland	Follicular Cel	Hyperplasia	Mild
* Uterus		Angiectasis	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 955

TRT#: 23

SEX: Female

DAY ON TEST: 724

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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
* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Clitoral Gland		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
		Necrosis	Focal, Minimal
Note: ANOM HEPAT LOB	TGLs = 3-22		
Note: [GRANULOMA]	TGLs = 6,22,23		
[Fibrosis TGLS = 5-23]			
* Mammary Gland		Dilatation	Moderate
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-21		
Note: DILATATION	TGLs = 1-8		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 4-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 955	TRT#: 23	SEX: Female	DAY ON TEST: 724
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043981

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ANGIECTASIS	TGLs = 4-1		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 956

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mesenteric
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION	TGLs = 2-22		
Note: FIBROADENOMA	TGLs = 1-21		
* Pancreas	Acinar Cell	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS	TGLs = 4-1		
Note: ADENOMA	TGLs = 4-1		
* Thymus		Cyst	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
Vagina		Cyst	Mild
Note: CYST	TGLs = 6-7-1		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 957

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------------|---------------------------|-----------------------------|----------------------------|
| * Adrenal Gland - Cortex | * 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 |
| * Lung | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach - Forestomach |
| * Stomach - Glandular | * Trachea | | |

MISSING

- | | |
|----------|-------------------|
| * Thymus | * Urinary Bladder |
|----------|-------------------|

OBSERVATIONS

- | | | | |
|----------------------|---------------|-------------------------|------------------|
| * Adrenal Gland | Medulla | Pheochromocytoma Benign | |
| * Bone | | Hyperostosis | Moderate |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Adenoma | |
| | | Nephropathy | Moderate |
| Note: NEPHROPATHY | TGLs = 2-5 | | |
| * Liver | Centrilobular | Atrophy | Mild |
| | | Fatty Change | Mild |
| | Biliar Tract | Fibrosis | Minimal |
| | | Focal Cellular Change | Mild |
| | | Granuloma | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Multifocal, Mild |
| | | Leukemia Mononuclear | |
| Note: ATROPHY | TGLs = 3-6 | | |
| Note: LEUKEMIA MONUC | TGLs = 3-6 | | |
| Note: HYPERPLASIA | TGLs = 3-6 | | |
| * Lymph Node | Mandibular | Leukemia Mononuclear | |
| | Mesenteric | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| Note: DILATATION | TGLs = 5-8 | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 957	TRT#: 23	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0140% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043983

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 4-1 Note: ADENOMA TGLs = 4-1			
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
Note: [ADENOMA] TGLs = 3			
* Uterus	Endometrium	Hydrometra Hyperplasia	Moderate Cystic, Moderate
Note: HYDROMETRA TGLs = 1-7 Note: HYPERPLASIA TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 958

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone Marrow	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 4-23		
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 5-1-1		
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Islets, Pancreatic		Adenoma	
Note: ADENOMA	TGLs = 9-26		
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA]	TGLs = 6,25		
Note: FOCAL CELL CH	TGLs = 7-24,8-25		
[Hyperplasia TGLS = 8-25]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
Note: DILATATION	TGLs = 2-8-1		
Note: FIBROADENOMA	TGLs = 3-22		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ADENOMA	TGLs = 6-1		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 958	TRT#: 23	SEX: Female	DAY ON TEST: 730
	DOSE: 0.0140% CHLORINE	DISP: Terminal Sacrifice	HISTO: A87043984

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Erosion	Mild
		Inflammation	Chronic, Moderate
Note: INFLAMMATION	TGLs = 1-21		
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 959

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Bone		Hyperostosis	Mild
* Intestine Large	Rectum	Parasite Metazoan	Mild
* Kidney		Nephropathy	Mild
* Liver		Granuloma	Mild
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-21			
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 960

TRT#: 23

SEX: Female

DAY ON TEST: 730

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Brain	* Esophagus
* Heart	* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone		Hyperostosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 1-21		
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Angiectasis	Minimal
	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 2-6		
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 961

TRT#: 23

SEX: Female

DAY ON TEST: 729

DOSE: 0.0140% CHLORINE

DISP: Terminal Sacrifice

HISTO: A87043987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
* Bone		Hyperostosis	Minimal
Note: HYPEROSTOSIS	TGLs = 4-23		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLs = 3-22]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-21		
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate
Note: INFLAMMATION	TGLs = 2-7		
Note: CYST	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 962

TRT#: 23

SEX: Female

DAY ON TEST: 411

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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 - Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Congestion	Moderate
		Fatty Change	Mild
		Granuloma	Mild
* Lung		Hemorrhage	Minimal
* Lymph Node	Pancreatic	Angiectasis	Mild
* Pituitary Gland		Angiectasis	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 963

TRT#: 23

SEX: Female

DAY ON TEST: 724

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex
* Clitoral Gland
* Intestine Large - Colon
* Islets, Pancreatic
* Ovary
* Stomach - Forestomach
* Urinary Bladder

* Adrenal Gland - Medulla
* Esophagus
* Intestine Large - Rectum
* Lymph Node - Mandibular
* Parathyroid Gland
* Stomach - Glandular

* Bone
* Heart
* Intestine Small - Ileum
* Lymph Node - Mesenteric
* Salivary Glands
* Thymus

* Brain
* Intestine Large - Cecum
* Intestine Small - Jejunum
* Nose
* Skin
* Trachea

MISSING

* Intestine Small - Duodenum

OBSERVATIONS

* Bone Marrow
* Kidney
* Liver

Centrilobular

Biliar Tract

Bile Duct

Leukemia Mononuclear
Nephropathy
Atrophy
Fatty Change
Fibrosis
Focal Cellular Change
Hyperplasia
Hyperplasia
Leukemia Mononuclear

Minimal
Mild
Moderate
Mild
Minimal
Mild
Multifocal, Mild

Note: LEUKEMIA MONUC TGLs = 6-6
[Hyperplasia TGLS = 6-6]
[Leukemia Mononuclear TGLS = 6-6,7-21,8-22,9-6-1]

* Lung
* Mammary Gland
Note: DILATATION TGLs = 1-8

Leukemia Mononuclear
Dilatation

Mild

* Pancreas
* Pituitary Gland
* Spleen

Pars Distalis

Atrophy
Adenoma
Leukemia Mononuclear

Focal, Mild

Note: LEUKEMIA MONUC TGLs = 5-6

* Thyroid Gland

C Cell

Hyperplasia

Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 963	TRT#: 23	SEX: Female	DAY ON TEST: 724
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043988

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus		Hydrometra	Moderate
	Endometrium	Hyperplasia	Cystic, Mild
Note: HYDROMETRA	TGLs = 3-7		
Vagina		Exudate	Mucous, Moderate
Note: EXUDATE	TGLs = 4-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 964

TRT#: 23

SEX: Female

DAY ON TEST: 687

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043989

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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Centrilobular	Atrophy	Mild
		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 3-6 [Fatty Change TGLS = 3-6] [Hyperplasia TGLS = 3-6] [Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
* Pituitary Gland		Angiectasis	Mild
* Spleen		Fibrosis	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 964	TRT#: 23	SEX: Female	DAY ON TEST: 687
	DOSE: 0.0140% CHLORINE	DISP: Moribund Sacrifice	HISTO: A87043989

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 2-6		Leukemia Mononuclear	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 965

TRT#: 23

SEX: Female

DAY ON TEST: 559

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A87043990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------------|------------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - 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 | * Lung |
| * Lymph Node - Mandibular | * Lymph Node - Mesenteric | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach - Glandular | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---------------------------------|---------------|-----------------------|-----------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Focal Cellular Change | Mild |
| | | Granuloma | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Necrosis | Focal, Minimal |
| Note: [GRANULOMA] TGLs = 6,21 | | | |
| * Mammary Gland | | Dilatation | Mild |
| * Nose | | Hemorrhage | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| Note: ADENOMA TGLs = 3-1 | | | |
| Note: ANGIECTASIS TGLs = 3-1 | | | |
| * Stomach | Forestomach | Diverticulum | Minimal |
| Note: DIVERTICULUM TGLs = 6-4-1 | | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| Vagina | | Cyst | Moderate |
| | | Inflammation | Suppurative, Moderate |
| Note: CYST TGLs = 1-7 | | | |
| Note: INFLAMMATION TGLs = 1-7 | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 971

TRT#: 23

SEX: Female

DAY ON TEST: 418

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large - Cecum	* Intestine Large - Rectum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Parathyroid Gland	* Skin	* Stomach - Forestomach
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Leukemia Mononuclear	
	Medulla	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-10		
Note: LEUKEMIA MONUC	TGLs = 5-10		
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large	Colon	Leukemia Mononuclear	
* Intestine Small	Duodenum	Leukemia Mononuclear	
	Ileum	Leukemia Mononuclear	
	Jejunum	Leukemia Mononuclear	
* Kidney	Renal Tubule	Degeneration	Hyaline, Moderate
		Leukemia Mononuclear	
		Pigmentation	Moderate
* Liver		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
Note: ANOM HEPAT LOB	TGLs = 7-22		
Note: LEUKEMIA MONUC	TGLs = 6-6		
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 10-2		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Inguinal	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 971

TRT#: 23

SEX: Female

DAY ON TEST: 418

DOSE: 0.0140% CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037926

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 9-3		
Note: LEUKEMIA MONUC	TGLs = 8-5		
	[Leukemia Mononuclear TGLS = 4-21]		
Mesentery		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 3-6		
* Stomach	Glandular	Inflammation	Chronic, Mild
* Thyroid Gland		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 976

TRT#: 27

SEX: Female

DAY ON TEST: 596

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Kidney
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

Ear	Pinna	Schwannoma Nos	
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
Note: [GRANULOMA] TGLs = 6,21,23,24			
[Fibrosis TGLS = 4-23,5-24]			
[Hyperplasia TGLS = 2-21]			
* Mammary Gland		Dilatation	Mild
* Nose		Fungus	Moderate
		Inflammation	Suppurative, Moderate
* Pituitary Gland		Angiectasis	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Vagina		Cyst	Mild
		Inflammation	Suppurative, Mild
Note: INFLAMMATION TGLs = 1-7-1			
Note: CYST TGLs = 1-7-1			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 977

TRT#: 27

SEX: Female

DAY ON TEST: 708

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* 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	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone		Hyperostosis	Moderate
[Hyperostosis TGLS = 3-21]			
* Brain		Compression	Mild
[Compression TGLS = 5-1]			
* Kidney		Nephropathy	Marked
[Nephropathy TGLS = 2-5]			
* Liver		Fatty Change	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 7-22]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8-1]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 4-1]			
[Angiectasis TGLS = 4-1]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 978

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Kidney		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
* Liver		Fatty Change	Mild
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Focal, Mild
	[Focal Cellular Change TGLS = 6-22]		
	[Hyperplasia TGLS = 4-6]		
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		Hyperplasia	Mild
Note: HYPERPLASIA	TGLs = 2-8-1		
Note: FIBROADENOMA	TGLs = 1-21,2-8-1		
Note: DILATATION	TGLs = 2-8-1		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ADENOMA	TGLs = 5-1		
Note: ANGIECTASIS	TGLs = 5-1		
* Skin	Sebaceous GI	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 978

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044016

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Cyst

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 979

TRT#: 27

SEX: Female

DAY ON TEST: 667

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044017

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
Ear	Pinna	Schwannoma Nos	
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
[Hyperplasia TGLs = 6-6,8-24]			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	Multiple
* Ovary	Follicle	Cyst	Moderate
Note: CYST TGLs = 4-7			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 7-1			
Note: ADENOMA TGLs = 7-1			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 979

TRT#: 27

SEX: Female

DAY ON TEST: 667

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044017

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 5-7-1

Note: INFLAMMATION TGLs = 5-7-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 980

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla
* Esophagus
* Intestine Large - Rectum
* Islets, Pancreatic
* Nose
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Bone
* Heart
* Intestine Small - Duodenum
* Lung
* Ovary
* Skin
* Thymus
* Uterus

* Bone Marrow
* Intestine Large - Cecum
* Intestine Small - Ileum
* Lymph Node - Mandibular
* Pancreas
* Spleen
* Thyroid Gland

* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Lymph Node - Mesenteric
* Parathyroid Gland
* Stomach - Forestomach
* Trachea

OBSERVATIONS

* Adrenal Gland
* Clitoral Gland
* Kidney
* Liver

Cortex

Biliar Tract

Bile Duct

Adenoma
Inflammation
Nephropathy
Fibrosis
Focal Cellular Change
Granuloma
Hepatodiaphragmatic Nodule
Hyperplasia

Suppurative, Minimal
Mild
Minimal
Mild
Mild
Moderate
Minimal

Note: [GRANULOMA] TGLs = 6,21,22
[Fibrosis TGLs = 4-22]
[Hyperplasia TGLs = 2-21]

* Mammary Gland

Note: DILATATION TGLs = 1-8

* Pituitary Gland

Pars Distalis

Dilatation

Mild

Note: ADENOMA TGLs = 3-1

Note: ANGIECTASIS TGLs = 3-1

Adenoma
Angiectasis

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 981

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Fibrosis	Mild
		Nephropathy	Mild
Note: FIBROSIS	TGLs = 2-21		
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Hyperplasia	Lymphoid, Histiocytic, Mild
* Lymph Node	Mandibular	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 1-8		
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 982

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Small - Duodenum	* Intestine Small - Ileum
* Intestine Small - Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Dilatation TGLS = 1-8]			
[Fibroadenoma TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
		Hyperplasia	Focal, Mild
Note: ANGIECTASIS TGLs = 8-1			
* Spleen		Hyperplasia	Lymphoid, Histiocytic, Minimal
* Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA TGLs = 7-3			
* Uterus	Endometrium	Granular Cell Tumor Nos	Mild
	Endometrium	Hydrometra	Cystic, Mild
		Hyperplasia	
		Polyp Stromal	
[Hydrometra TGLS = 3-7]			
[Polyp Stromal TGLS = 6-7]			
Vagina		Cyst	Moderate
		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 982

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044020

ORGAN AND ACCOUNTABLE SITE STATUS

Note: CYST TGLs = 4-7,5-7

Note: INFLAMMATION TGLs = 4-7,5-7

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 983

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Lymph Node - Mesenteric
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OBSERVATIONS

* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 7-9		
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 9-1-1		
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Mild
		Fatty Change	Minimal
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node	Mandibular	Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
Note: DILATATION	TGLs = 1-21		
* Nose		Fungus	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 983

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044021

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 8-1		
Note: ANGIECTASIS	TGLs = 8-1		
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Uterus		Hydrometra	Moderate
		Endometrium	
		Polyp Stromal	
Note: POLYP STROMAL	TGLs = 3-22		
Note: HYDROMETRA	TGLs = 2-7		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 984

TRT#: 27

SEX: Female

DAY ON TEST: 726

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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 - Mandibular	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Mild
	Cortex	Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Mild
		Histiocytic Sarcoma	
		Hyperplasia	Multifocal, Mild
		Necrosis	Focal, Mild
* Lung		Hemorrhage	Minimal
		Histiocytic Sarcoma	
Note: HEMORRHAGE	TGLs = 15-2		
* Lymph Node	Mediastinal	Histiocytic Sarcoma	
	Mesenteric	Histiocytic Sarcoma	
	Pancreatic	Histiocytic Sarcoma	
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Ovary		Histiocytic Sarcoma	
Skeletal Muscle		Histiocytic Sarcoma	
* Skin	Subcut Tiss	Histiocytic Sarcoma	
* Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 984

TRT#: 27

SEX: Female

DAY ON TEST: 726

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044022

ORGAN AND ACCOUNTABLE SITE STATUS

		Histiocytic Sarcoma	
[Hematopoietic Cell Proliferation TGLS = 8-6-1]			
* Stomach	Forestomach	Edema	Moderate
	Forestomach	Ulcer	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
Vagina		Sarcoma	
[Sarcoma TGLS = 4-7-1,5-23,6-24,7-7-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 985

TRT#: 27

SEX: Female

DAY ON TEST: 560

DOSE: 0.00700%CHLORINE

DISP: Natural Death

HISTO: A87044023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Intestine Small	Ileum	Fibrosis	Marked
	Ileum	Ulcer	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Granuloma	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Mild
Note: [GRANULOMA] TGLs = 6,22			
Note: ANOM HEPAT LOB TGLs = 5-22			
* Mammary Gland		Fibroadenoma	
Note: FIBROADENOMA TGLs = 4-8			
* Spleen		Amyloid Deposition	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 986

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla
* Clitoral Gland
* Intestine Large - Rectum
* Islets, Pancreatic
* Pancreas
* Spleen
* Thyroid Gland

* Bone
* Esophagus
* Intestine Small - Duodenum
* Lymph Node - Mandibular
* Parathyroid Gland
* Stomach - Forestomach
* Trachea

* Bone Marrow
* Heart
* Intestine Small - Ileum
* Lymph Node - Mesenteric
* Salivary Glands
* Stomach - Glandular
* Urinary Bladder

* Brain
* Intestine Large - Colon
* Intestine Small - Jejunum
* Ovary
* Skin
* Thymus
* Uterus

OBSERVATIONS

* Adrenal Gland
* Intestine Large
* Kidney
* Liver

Cortex
Cecum

Biliar Tract

Bile Duct

Alveolar Epith

Pars Distalis

Focal Cellular Change
Parasite Metazoan
Nephropathy
Fibrosis
Focal Cellular Change
Granuloma
Hepatodiaphragmatic Nodule
Hyperplasia

Hyperplasia
Dilatation

Fungus
Inflammation
Angiectasis
Hyperplasia

Minimal
Minimal
Mild
Minimal
Mild
Minimal
Mild
Minimal

Moderate
Mild

Minimal
Suppurative, Minimal
Mild
Focal, Mild

Note: ANOM HEPAT LOB TGLs = 1-21

Note: [GRANULOMA] TGLs = 6,21

* Lung
* Mammary Gland

Note: DILATATION TGLs = 2-8

* Nose

* Pituitary Gland

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 987

TRT#: 27

SEX: Female

DAY ON TEST: 424

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A86037912

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* Brain
* Esophagus	* Heart	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

Blood Vessel	Mesent Artery	Thrombosis	Moderate
* Bone Marrow		Hypercellularity	Moderate
* Clitoral Gland		Inflammation	Suppurative, Minimal
Note: INFLAMMATION TGLs = 3-8			
* Kidney		Mineralization	Minimal
* Liver		Granuloma	Minimal
		Hematopoietic Cell Proliferation	Minimal
* Mammary Gland		Fibrosis	Mild
		Hyperplasia	Mild
Mesentery		Inflammation	Chronic, Marked
* Pituitary Gland		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland		Ultimobranchial Cyst	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Prolapse	Marked
Note: PROLAPSE TGLs = 1-7			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 988

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large - Cecum	* Intestine Large - Colon
* Intestine Small - Duodenum	* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node - Mandibular	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Medulla	Pheochromocytoma Benign	
* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS TGLs = 3-22			
* Intestine Large	Rectum	Parasite Metazoan	Minimal
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
	Bile Duct	Granuloma	Minimal
		Hyperplasia	Minimal
		Hyperplasia	Multifocal, Mild
Note: [GRANULOMA] TGLs = 6,23-25			
Note: HYPERPLASIA TGLs = 4-23			
Note: FOCAL CELL CH TGLs = 4-23,5-24,6-25			
* Lymph Node	Mediastinal	Angiectasis	Mild
	Mesenteric	Angiectasis	Mild
Note: ANGIECTASIS TGLs = 2-3			
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 989

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Gland - Medulla
- * Clitoral Gland
- * Intestine Large - Colon
- * Intestine Small - Jejunum
- * Lymph Node - Mesenteric
- * Parathyroid Gland
- * Stomach - Forestomach
- * Urinary Bladder
- * Bone
- * Esophagus
- * Intestine Large - Rectum
- * Islets, Pancreatic
- * Nose
- * Salivary Glands
- * Thymus
- * Uterus
- * Bone Marrow
- * Heart
- * Intestine Small - Duodenum
- * Lung
- * Ovary
- * Skin
- * Thyroid Gland
- * Brain
- * Intestine Large - Cecum
- * Intestine Small - Ileum
- * Lymph Node - Mandibular
- * Pancreas
- * Spleen
- * Trachea

OBSERVATIONS

- * Adrenal Gland
Eye
Cortex
Focal Cellular Change
Mild
- Eye
Retina
Cataract
Marked
- Retina
Degeneration
Marked
- Note: CATARACT TGLs = 1-21
- Note: DEGEN TGLs = 1-21
- * Kidney
Nephropathy
Mild
- * Liver
Biliar Tract
Fibrosis
Minimal
- Focal Cellular Change
Mild
- Granuloma
Minimal
- Bile Duct
Hyperplasia
Mild
- Dilatation
Mild
- * Mammary Gland
Note: DILATATION TGLs = 4-8
- * Pituitary Gland
Pars Distalis
Adenoma
- Angiectasis
Moderate
- Note: ADENOMA TGLs = 2-1
- Note: ANGIECTASIS TGLs = 2-1
- * Stomach
Glandular
Carcinoid Tumor Nos
- Note: CARCIND TM NOS TGLs = 5-4-1

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 990

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 5-22		
* Eye		Cataract	Moderate
		Degeneration	Marked
Note: CATARACT	TGLs = 1-21		
Note: DEGEN	TGLs = 1-21		
* Kidney		Nephropathy	Minimal
* Liver		Congestion	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hyperplasia	Minimal
[Hyperplasia TGLs = 4-6]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 2-8		
* Pituitary Gland		Angiectasis	Mild
* Thyroid Gland	Follicular Cel	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 991

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|------------------------------|---------------------------|
| * Adrenal Gland - Cortex | * Adrenal Gland - 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 | * Lung | * Lymph Node - Mandibular |
| * Lymph Node - Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach - Forestomach |
| * Stomach - Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------------------------------------------------------------------|---------------|---------------------------------------------------------------|-----------------------------------------|
| * Heart
Note: INFLAMMATION TGLs = 4-5 | | Inflammation | Chronic, Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver

Note: [GRANULOMA] TGLs = 6,22
[Hyperplasia TGLS = 2-22] | Biliar Tract | Fibrosis
Focal Cellular Change
Granuloma
Hyperplasia | Mild
Mild
Minimal
Mild
Mild |
| * Mammary Gland
Note: DILATATION TGLs = 1-21 | | Dilatation | Mild |
| * Pancreas | | Atrophy | Focal, Mild |
| * Pituitary Gland

Note: ANGIOECTASIS TGLs = 5-1 | Pars Distalis | Angiectasis
Hyperplasia | Mild
Focal, Mild |
| * Thymus | | Cyst | Mild |
| * Thyroid Gland
Note: CARCINOMA TGLs = 3-3 | C Cell | Carcinoma | |
| * Uterus | Endometrium | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 992

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Moderate
Blood Vessel	Mesent Artery	Inflammation	Chronic, Moderate
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 3-22]			
* Mammary Gland		Dilatation	Mild
Note: DILATATION TGLs = 1-21			
* Ovary	Follicle	Cyst	Moderate
Note: CYST TGLs = 2-7			
* Pituitary Gland		Angiectasis	Moderate
Note: ANGIECTASIS TGLs = 5-1		Craniopharyngioma	
Note: CRANIOPHRNGOMA TGLs = 4-1			
* Thyroid Gland		Fibrosis	Mild
	Follicular Cel	Hyperplasia	Mild
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 993

TRT#: 27

SEX: Female

DAY ON TEST: 619

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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	* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
* Brain		Compression	Marked
[Compression TGLS = 3-1-1]			
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Mild
		Focal Cellular Change	Mild
		Granuloma	Minimal
Note: [GRANULOMA] TGLs = 6,21			
[Focal Cellular Change TGLS = 4-21]			
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8]			
* Nose		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Adenoma TGLS = 2-1]			
[Angiectasis TGLS = 2-1]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 994

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - 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 - Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Spleen	* Stomach - Forestomach	* Stomach - Glandular
* Thymus	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
Blood Vessel	Mesent Artery	Inflammation	Chronic, Mild
* Kidney		Nephropathy	Mild
* Liver		Focal Cellular Change	Mild
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
* Lung		Carcinoma	Metastatic (Thyroid Gland)
* Lymph Node	Mandibular	Carcinoma	Metastatic (Thyroid Gland)
	Mediastinal	Carcinoma	Metastatic (Thyroid Gland)
Note: CARCINOMA	TGLs = 6-3		
Note: CARCINOMA	TGLs = 1-8-1		
Mesentery	Fat	Necrosis	Mild
Note: NECROSIS	TGLs = 2-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
* Thyroid Gland	C Cell	Carcinoma	
Note: CARCINOMA	TGLs = 3-3-1		
* Trachea		Carcinoma	Metastatic (Thyroid Gland)
* Uterus	Endometrium	Granular Cell Tumor Nos	
		Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 994

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044031

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Polyp Stromal

Note: GRA CL TUM NOS TGLs = 4-7
Vagina

Cyst
Inflammation

Moderate
Suppurative, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 995

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lung	* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach - Forestomach	* Stomach - Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Gland	Cortex	Focal Cellular Change	Minimal
	Medulla	Hyperplasia	Minimal
Eye	Retina	Cataract	Moderate
		Degeneration	Moderate
	[Cataract TGLS = 1-21]		
	[Degeneration TGLS = 1-21]		
* Intestine Large	Colon	Cyst	Moderate
Note: CYST	TGLs = 3-23		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Angiectasis	Mild
		Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Minimal
	Note: [GRANULOMA]		
	TGLs = 6,22		
	[Hepatodiaphragmatic Nodule TGLS = 2-22]		
* Lymph Node	Mediastinal	Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 4-3		
* Mammary Gland		Dilatation	Minimal
* Pancreas		Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 995	TRT#: 27	SEX: Female	DAY ON TEST: 729
	DOSE: 0.00700%CHLORINE	DISP: Terminal Sacrifice	HISTO: A87044032

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 996

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Lung
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Salivary Glands	* Skin	* Spleen	* Stomach - Forestomach
* Stomach - Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

Eye		Cataract	Marked
	Retina	Degeneration	Marked
Note: DEGEN	TGLs = 1-21		
Note: CATARACT	TGLs = 1-21		
* Kidney		Nephropathy	Minimal
* Liver	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Minimal
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 2-22		
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 3-1		
Note: ADENOMA	TGLs = 3-1		
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 997

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* 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
* Lymph Node - Mandibular	* Lymph Node - Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
Blood Vessel	Thoracic	Inflammation	Chronic, Mild
* Bone		Hyperostosis	Mild
* Brain		Compression	Mild
Note: COMPRESSION	TGLs = 6-1-1		
* Kidney		Inflammation	Suppurative, Mild
		Nephropathy	Marked
Note: NEPHROPATHY	TGLs = 3-5		
* Liver		Fatty Change	Moderate
	Biliar Tract	Fibrosis	Minimal
		Focal Cellular Change	Mild
		Granuloma	Minimal
	Bile Duct	Hyperplasia	Minimal
[Hyperplasia TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Mammary Gland		Dilatation	Marked
		Fibroadenoma	
Note: FIBROADENOMA	TGLs = 2-22		
Note: DILATATION	TGLs = 1-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 997	TRT#: 27	SEX: Female	DAY ON TEST: 729
	DOSE: 0.00700%CHLORINE	DISP: Terminal Sacrifice	HISTO: A87044034

ORGAN AND ACCOUNTABLE SITE STATUS

Note: ADENOMA	TGLs = 5-1			
* Stomach		Glandular	Erosion	Minimal
		Forestomach, Mucosa	Hyperplasia	Papillary, Moderate
		Forestomach	Inflammation	Chronic, Moderate
* Thyroid Gland		C Cell	Hyperplasia	Minimal
* Uterus		Endometrium	Hyperplasia	Cystic, Mild
			Inflammation	Suppurative, Minimal
Vagina			Inflammation	Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 998

TRT#: 27

SEX: Female

DAY ON TEST: 621

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - Medulla	* Bone	* 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	* Skin	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Moderate
Note: COMPRESSION	TGLs = 15-1-1		
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Centrilobular	Atrophy	Mild
	Biliar Tract	Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Hyperplasia	Multifocal, Mild
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 4-6		
* Lung	Mediastinum	Leukemia Mononuclear	
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 11-2		
Note: LEUKEMIA MONUC	TGLs = 13-25		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Deep Cervical	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 16-26		
Note: LEUKEMIA MONUC	TGLs = 10-23		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Chloraminated water

CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014

Time Report Requested: 02:23:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 998

TRT#: 27

SEX: Female

DAY ON TEST: 621

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044035

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC	TGLs = 7-22		
Note: LEUKEMIA MONUC	TGLs = 9-5		
Note: LEUKEMIA MONUC	TGLs = 2-8		
* Mammary Gland		Dilatation	Mild
Note: DILATATION	TGLs = 1-8		
Mesentery		Leukemia Mononuclear	
* Nose		Foreign Body	Mild
		Inflammation	Suppurative, Moderate
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 14-1		
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 6-21,5-6-1		
* Stomach		Forestomach	
		Glandular	
Note: LEUKEMIA MONUC	TGLs = 17-4-1		
* Thymus		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-24		
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Endometrium	
		Hyperplasia	Cystic, Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 999

TRT#: 27

SEX: Female

DAY ON TEST: 729

DOSE: 0.00700%CHLORINE

DISP: Terminal Sacrifice

HISTO: A87044036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Cortex	* Adrenal Gland - 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	* Islets, Pancreatic	* Lung	* Lymph Node - Mandibular
* Lymph Node - Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach - Forestomach	* Stomach - Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Clitoral Gland		Inflammation	Suppurative, Minimal
Note: INFLAMMATION	TGLs = 3-8		
* Kidney		Nephropathy	Mild
* Liver	Biliar Tract	Fibrosis	Minimal
		Granuloma	Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Dilatation	Mild
* Mammary Gland			
Note: DILATATION	TGLs = 1-21		
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Mild
Note: ANGIECTASIS	TGLs = 2-1		
Note: ADENOMA	TGLs = 2-1		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 1000

TRT#: 27

SEX: Female

DAY ON TEST: 614

DOSE: 0.00700%CHLORINE

DISP: Moribund Sacrifice

HISTO: A87044037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Gland - Medulla	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large - Cecum	* Intestine Large - Colon	* Intestine Large - Rectum	* Intestine Small - Duodenum
* Intestine Small - Ileum	* Intestine Small - Jejunum	* Islets, Pancreatic	* Nose
* Parathyroid Gland	* Skin	* Stomach - Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	Vagina	

OBSERVATIONS

* Adrenal Gland	Cortex	Vacuolization Cytoplasmic	Moderate
* Bone		Hyperostosis	Mild
Note: HYPEROSTOSIS	TGLs = 8-22		
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Moderate
		Leukemia Mononuclear	
Note: HEMORRHAGE	TGLs = 9-1		
Note: LEUKEMIA MONUC	TGLs = 9-1		
* Kidney		Leukemia Mononuclear	
* Liver		Fatty Change	Marked
		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 5-6-1,6-21,11-23		
[Leukemia Mononuclear TGLS = 11-23]			
* Lung		Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 12-2		
* Lymph Node	Bronchial	Leukemia Mononuclear	
	Mandibular	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Mesenteric	Leukemia Mononuclear	
Note: LEUKEMIA MONUC	TGLs = 1-8		
[Leukemia Mononuclear TGLS = 7-3]			
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Ovary		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-01
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Chloraminated water
CAS Number: CHLORAMINEMX

Date Report Requested: 10/21/2014
Time Report Requested: 02:23:26
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 1000	TRT#: 27	SEX: Female	DAY ON TEST: 614
	DOSE: 0.00700%CHLORINE	DISP: Moribund Sacrifice	HISTO: A87044037

ORGAN AND ACCOUNTABLE SITE STATUS

Note: LEUKEMIA MONUC TGLs = 3-7			
* Pancreas		Atrophy	Focal, Mild
* Pituitary Gland		Angiectasis	Mild
		Leukemia Mononuclear	
Note: ANGIECTASIS TGLs = 10-1			
* Salivary Glands		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
Note: LEUKEMIA MONUC TGLs = 4-6			
* Stomach	Forestomach, Mucosa	Hyperplasia	Papillary, Mild
	Forestomach	Inflammation	Chronic, Moderate
	Forestomach	Ulcer	Mild
* Thymus		Leukemia Mononuclear	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE