

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

D_RD

C Number: C96014B
Lock Date: 11/17/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.1.0

25020 NATD

25019 MSAC

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 Lab: BAT

ANIMAL NUM: 1

TMT: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
Blood Vessel		Inflammation	Moderate
Note: Vascular inflammation affects testicular and epididymal arteries and has caused secondary degeneration of seminiferous tubules.			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 3 - 5]		
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Mixed Cell Focus TGLs = 4 - 16]	Mixed Cell Focus	
* Mammary Gland		Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
	[Inflammation TGLs = 6 - 18]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 5 - 17]		
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 15]		

* PROTOCOL REQUIRED TISSUE

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ANIMAL NUM: 1

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 0800559

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Inflammation	Mild
* Skin	Squamous Cell Papilloma	
Note: Papilloma is very small and inverted. [Squamous Cell Papilloma TGLs = 1 - 14]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
	Pigmentation	Hemosiderin, Minimal
* Thymus	Atrophy	Marked

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 Lab: BAT

ANIMAL NUM: 2

TMT: 1

SEX: Male

DAY ON TEST: 674

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Mild
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	

Note: The bile duct hyperplasia was only graded as minimal because much of it was considered secondary to the mononuclear cell leukemia.

[Leukemia Mononuclear TGLs = 3 - 6+7]

* Lung		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Prostate		Inflammation	Minimal
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 15]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 4 - 11]		
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

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 Lab: BAT

ANIMAL NUM: 3

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 588
HISTO: 0800561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---------------------------|----------------------------------|----------------|-------------------------|
| * Adrenal Cortex | | Hypertrophy | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 1 - 14] | | | |
| * Prostate | | Inflammation | Mild |
| * Spleen | | Pigmentation | Hemosiderin, Minimal |
| * Stomach, Forestomach | | Inflammation | Minimal |
| * Testes | Germinal Epith
Interstit Cell | Degeneration | Mild |
| | | Hyperplasia | Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

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 Lab: BAT

ANIMAL NUM: 4

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 680
HISTO: 0800562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 3 - 16]		
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[Hepatodiaphragmatic Nodule TGLs = 2 - 15]		
* Pancreas		Atrophy	Mild
	Acinus	Hyperplasia	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 18]		
* Prostate		Inflammation	Moderate
* Seminal Vesicle		Inflammation	Minimal
* Skin	Epidermis	Hyperkeratosis	Moderate
	Note: There may also be a skin tag responsible for TGL-1 (but if so, it is neither toxicologically relevant nor an available diagnosis in TDMSE).		
	[Hyperkeratosis TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Marked
		Ulcer	Marked
* Stomach, Glandular		Inflammation	Mild

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Lab: BAT

ANIMAL NUM: 4

TMT: 1

SEX: Male

DAY ON TEST: 680

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800562

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate
[Adenoma TGLs = 6 - 11]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

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 Lab: BAT

ANIMAL NUM: 5

TMT: 1

SEX: Male

DAY ON TEST: 617

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone		Osteopetrosis	Minimal
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Mild
Note: Absence of fat in marrow appears like marrow hyperplasia; however, the cellularity is largely due to leukemic blood in congested vessels.			
* Heart		Cardiomyopathy	Minimal
* Kidney	Cortex	Cyst	Marked
		Leukemia Mononuclear	
		Nephropathy	Minimal
	[Cyst TGLs = 2 - 15]		
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 16]		
* Lung		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		

* PROTOCOL REQUIRED TISSUE

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Lab: BAT

ANIMAL NUM: 5

TMT: 1

SEX: Male

DAY ON TEST: 617

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800563

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 4 - 11]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

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 Lab: BAT

ANIMAL NUM: 6

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 683
HISTO: 0800564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Iris	Inflammation	Minimal
* Heart	Pericardium	Cardiomyopathy	Minimal
		Inflammation	Chronic Active, Moderate
		Mesothelioma Malignant	
	[Inflammation TGLs = 5,7 - 16]		
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 2 - 5]		
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Mesothelioma Malignant	
* Lymph Node, Mandibular		Ectasia	Moderate
* Mammary Gland		Inflammation	Chronic, Mild
	[Inflammation TGLs = 3 - 15]		
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 8]		
* Prostate		Inflammation	Mild
	Note: There are several nodules of mesothelioma present on, but not apparently attached to, the prostate.		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

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Lab: BAT

ANIMAL NUM: 6

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 683
HISTO: 0800564

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Ulcer	Minimal
* Thymus		Hyperplasia	Marked
		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Heart Pericardium Inflammation

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 Lab: BAT

ANIMAL NUM: 7

TMT: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	Tongue	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Accumulation, Hyaline Droplet	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLs = 4 - 20]		
	[Leukemia Mononuclear TGLs = 2 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

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Lab: BAT

ANIMAL NUM: 7

TMT: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800565

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	[Adenoma TGLs = 5 - 21] Epithelium	Hyperplasia Inflammation	Minimal Mild
* Spleen		Leukemia Mononuclear Pigmentation	Hemosiderin, Minimal
* Testes	[Leukemia Mononuclear TGLs = 3 - 5] Bilateral, Interstit Cell	Adenoma	
* Thymus Tongue	[Adenoma TGLs = 1 - 11]	Atrophy	Moderate

Note: Tongue examined as control tissue for molecular biologic analyses.

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 Lab: BAT

ANIMAL NUM: 8

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 0800566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| Tongue | * Trachea | * Urinary Bladder | |

MISSING

- * Mammary Gland

OBSERVATIONS

- | | | | |
|---|---|------------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Mild |
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| Blood Vessel | | Inflammation | Mild |
| Note: Vascular inflammation involves testicular arteries. | | | |
| * Heart | | Cardiomyopathy | Moderate |
| | Atrium | Thrombosis | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Marked |
| | [Nephropathy TGLs = 4 - 5] | | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Bronchiole | Hyperplasia | Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| Lymph Node | Renal | Infiltration Cellular | Plasma Cell, Mild |
| | [Infiltration Cellular TGLs = 5 - 22] | | |
| * Nose | | Foreign Body | |

* PROTOCOL REQUIRED TISSUE

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ANIMAL NUM: 8

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 0800566

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Atrophy	Minimal
* Skin		Hyperplasia	Marked
	[Fibroma TGLs = 1 - 20]	Fibroma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 21]		
* Testes	Interstit Cell	Hyperplasia	Marked
	Note: TGL-2 also due to vascular inflammation (other testicle).		
	[Hyperplasia TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate
Tongue			
	Note: Tongue examined as control tissue for molecular biologic analyses.		

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 Lab: BAT

ANIMAL NUM: 9

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 568
HISTO: 0800567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis [Atrophy TGLs = 2 - 11]		Atrophy	Mild
* Harderian Gland [Inflammation TGLs = 5 - 10]		Inflammation	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Inflammation	Mild
* Kidney		Nephropathy	Marked
* Liver		Fatty Change	Diffuse, Marked
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
* Nose	Respirat Epith	Hyperplasia	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland [Adenoma TGLs = 6 - 14]	Pars Distalis	Adenoma	
* Prostate [Atrophy TGLs = 4 - 13]		Atrophy	Mild
* Seminal Vesicle [Atrophy TGLs = 3 - 13]		Atrophy	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach		Inflammation	Marked
		Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 9

TMT: 1

SEX: Male

DAY ON TEST: 568

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800567

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 7 - 15]

* Testes

Germinal Epith

Degeneration

Mild

[Degeneration TGLs = 1 - 11]

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 10

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 579
HISTO: 0800568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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 | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---|----------------------------------|-----------------------------|------------------------------------|
| * Liver | Bile Duct | Hyperplasia
Inflammation | Minimal
Chronic Active, Minimal |
| * Lung | | Mineralization | Minimal |
| * Pituitary Gland | | Atrophy | Marked |
| [Atrophy TGLs = 3 - 8] | | | |
| * Prostate | | Inflammation | Minimal |
| * Spleen | | Pigmentation | Hemosiderin, Mild |
| * Testes | Interstit Cell
Interstit Cell | Adenoma
Hyperplasia | Mild |
| Note: Interstitial cell adenoma in one testis and hyperplasia in the other accounted for TGL-1. | | | |
| [Adenoma TGLs = 1 - 11] | | | |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Pituitary Gland Atrophy

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 11

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 657
 HISTO: 0800569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Nose		Inflammation	Mild
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 3 - 16]		
* Prostate		Adenoma	
		Inflammation	Minimal
* Skin		Fibroma	
		Keratoacanthoma	
	[Fibroma TGLs = 1 - 14]		
	[Keratoacanthoma TGLs = 2 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 4 - 11]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 11

TMT: 1

SEX: Male

DAY ON TEST: 657

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800569

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 12

TMT: 1

SEX: Male

DAY ON TEST: 719

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|---|---|-------------------------------|----------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Brain | | | |
| Note: There is a nodule of fibrous histiocytoma within the brain. | | | |
| * Heart | Atrium | Cardiomyopathy | Mild |
| | | Thrombosis | Moderate |
| | [Thrombosis TGLs = 10 - 18] | | |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Accumulation, Hyaline Droplet | Marked |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| | [Nephropathy TGLs = 7 - 5] | | |
| * Liver | Bile Duct | Fibrous Histiocytoma | |
| | | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Fibrous Histiocytoma TGLs = 2,3,4,5 - 6+7+14+15] | | |
| * Lung | | Fibrous Histiocytoma | |
| | [Fibrous Histiocytoma TGLs = 8 - 3+4] | | |
| Lymph Node | Mediastinal | Fibrous Histiocytoma | |
| | [Fibrous Histiocytoma TGLs = 9 - 17] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 12

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 719
HISTO: 0800570

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary GI

Note: There is fibrous histiocytoma within the mammary gland.

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Prostate

Inflammation

Minimal

Skeletal Muscle

Fibrous Histiocytoma

* Skin

Fibrous Histiocytoma

[Fibrous Histiocytoma TGLs = 6 - 16]

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Hemosiderin, Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 1 - 11]

PRIMARY CAUSE OF DEATH

- Liver Fibrous Histiocytoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 13

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 0800571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	Tongue	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Osteopetrosis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Marked
	[Nephropathy TGLs = 2 - 23]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 3 - 22]		
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 13

TMT: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800571

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue

Note: Tongue examined as control tissue for molecular biologic analyses.

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 14

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 608
HISTO: 0800572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--------------------------------|----------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| | Atrium | Thrombosis | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | Centrilobular | Degeneration | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | Centrilobular | Necrosis | Mild |
| | [Necrosis TGLs = 4 - 6+7] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mesenteric | | Atrophy | Moderate |
| * Pancreas | | Atrophy | Minimal |
| | Acinus | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | | Inflammation | Minimal |
| * Skin | | Inflammation | Moderate |
| | | Ulcer | Mild |
| | [Inflammation TGLs = 2 - 14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 14

TMT: 1

SEX: Male

DAY ON TEST: 608

DOSE: 0 mg/L

DISP: Natural Death

HISTO: 0800572

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1 - 11]

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Heart Atrium Thrombosis

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 15

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 726
 HISTO: 0800573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Trachea | | | |

OBSERVATIONS

- | | | | |
|------------------------|--------------------------------|---|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Marked |
| Blood Vessel | | Pheochromocytoma Benign | |
| | | Inflammation | Mild |
| | | Note: Inflammation affects testicular arteries and is also responsible for TGL-3. | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 2 - 15] | | |
| * Liver | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1 - 14] | | |
| * Preputial Gland | | Inflammation | Moderate |
| | | | |
| | | Note: Abscessed preputial gland = TGL-4. | |
| | [Inflammation TGLs = 4 - 16] | | |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 15

TMT: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800573

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Inflammation	Mild
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Urinary Bladder		Inflammation	Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 16

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 537
HISTO: 0800574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Fatty Change	Diffuse, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Hemosiderin, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 17

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 477
 HISTO: 0800575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------------|----------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Moderate |
| * Liver | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3 - 15] | | | |
| * Preputial Gland | | Inflammation | Moderate |
| [Inflammation TGLs = 1 - 14] | | | |
| * Prostate | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Mild |
| | | Ulcer | Moderate |
| [Ulcer TGLs = 4 - 16] | | | |
| * Testes | Germinal Epith | Degeneration | Moderate |
| [Degeneration TGLs = 2 - 11] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 17

TMT: 1

SEX: Male

DAY ON TEST: 477

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800575

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 18

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Mild
	[Hyperplasia TGLs = 3 - 15]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 2 - 5]		
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Parathyroid Gland		Hyperplasia	Mild
* Prostate		Inflammation	Minimal
Skel Muscle			
	Note: Muscle examined as control tissue for molecular biologic analyses.		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 25

TMT: 1

SEX: Male

DAY ON TEST: 383

DOSE: 0 mg/L

DISP: Natural Death

HISTO: 0800583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart	Cardiomyopathy	Minimal
* Liver		
Note: TGL-1 = No corresponding lesion; gross observation was due to gas bubbles from autolysis.		
* Spleen	Pigmentation	Hemosiderin, Minimal
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 26

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	Skeletal Muscle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Lipoma	
		Nephropathy	Marked
	[Lipoma TGLs = 4 - 16]		
	[Nephropathy TGLs = 3 - 5]		
* Liver		Degeneration	Cystic, Minimal
		Fatty Change	Diffuse, Mild
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Hyperplasia	Minimal
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 2 - 15]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 8]		
* Prostate		Inflammation	Mild
Skel Muscle			
	Note: Muscle examined as control tissue for molecular biologic analyses.		
* Spleen		Pigmentation	Hemosiderin, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Marked
		Perforation	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 26

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800584

ORGAN AND ACCOUNTABLE SITE STATUS

Squamous Cell Papilloma

* Testes [Perforation TGLs = 5 - 17]

Bilateral, Interstit Cell

Adenoma

* Thymus [Adenoma TGLs = 1 - 11]

Atrophy

Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 27

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	Skeletal Muscle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 3 - 6+7]	Leukemia Mononuclear	
* Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 6 - 17]		
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1 - 8]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
Skel Muscle			
	Note: Muscle examined as control tissue for molecular biologic analyses.		
* Skin		Fibroma	
	[Fibroma TGLs = 7 - 18]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 27

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800585

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
		Infarct	Mild
		Leukemia Mononuclear	
	[Infarct TGLs = 4 - 16]		
	[Leukemia Mononuclear TGLs = 2 - 5]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 5 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 28

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Clear Cell Focus TGLs = 3,4 - 16+17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 18]		
* Prostate		Inflammation	Minimal
Skel Muscle			
	Note: Muscle examined as control tissue for molecular biologic analyses.		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 28

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800586

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 29

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 638
HISTO: 0800587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--|---|----------------------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| Blood Vessel | | Inflammation | Mild |
| Note: Testicular arteries are inflamed. | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Marked |
| | [Nephropathy TGLs = 2 - 5+15] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| Lymph Node | Renal | Infiltration Cellular | Plasma Cell, Mild |
| | [Infiltration Cellular TGLs = 4 - 16] | | |
| * Parathyroid Gland | | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5 - 17] | | |
| * Prostate | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Infarct | Mild |
| | | Pigmentation | Hemosiderin, Mild |
| Note: Splenic infarct is healed and now largely = fibrosis and siderophage accumulation. | | | |
| * Testes | Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 1 - 11] | | |
| * Thymus | | Atrophy | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 29

TMT: 1

SEX: Male

DAY ON TEST: 638

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800587

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Carcinoma

[Carcinoma TGLs = 3 - 14]

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 30

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Adenoma | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | [Clear Cell Focus TGLs = 3 - 16] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Alveolar Epith | Hyperplasia | Moderate |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLs = 4 - 17] | | |
| * Pancreas | | Atrophy | Minimal |
| | Acinus | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| | | Stromal Hyperplasia | |
| | [Stromal Hyperplasia TGLs = 1 - 15] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 30

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800588

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2 - 11]

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 31

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
Blood Vessel		Inflammation	Minimal
Note: Testicular arteries are inflamed.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy TGLs = 2 - 5]			
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
Note: Pulmonary inflammation involves a bronchus in this case.			
* Nose		Foreign Body	
		Inflammation	Mild
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Minimal
[Adenoma TGLs = 1 - 8]			
* Prostate		Inflammation	Moderate
* Spleen		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach		Inflammation	Mild
* Stomach, Glandular		Inflammation	Minimal
		Ulcer	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 31

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800589

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3 - 11]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 32

TMT: 1

SEX: Male

DAY ON TEST: 644

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Eye	Lens	Cataract	Minimal
	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 5 - 5]		
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 6 - 16]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Cytoplasmic Alteration	Mild
		Note: Pancreatic ductules have moderate dilatation (not available as a diagnosis in TDMSE as currently set up).	
		Note: The cytoplasmic alteration is similar to that within basophilic foci, but involves the entire pancreatic section.	
* Parathyroid Gland		Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Cyst Epithelial Inclusion	
		Metaplasia	Osseous, Minimal
	[Cyst Epithelial Inclusion TGLs = 2 - 15]		
	[Metaplasia TGLs = 1 - 14]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 32

TMT: 1

SEX: Male

DAY ON TEST: 644

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800590

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Ulcer	Mild
[Adenoma TGLs = 4 - 11]		Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 33

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule		
* Lung	TGLs = 2 - 15]		
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Mild
* Prostate		Inflammation	Minimal
* Salivary Glands		Metaplasia	Serous, Mild
* Skin		Lipoma	
	[Lipoma TGLs = 3 - 16]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 36

TMT: 1

SEX: Male

DAY ON TEST: 664

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* 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		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 6+7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 17]		
* Prostate		Inflammation	Minimal
* Skin	Epidermis	Hyperkeratosis	Moderate
	Epidermis	Hyperplasia	Squamous, Mild
		Inflammation	Moderate
	[Hyperkeratosis TGLs = 3 - 16]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 36

TMT: 1

SEX: Male

DAY ON TEST: 664

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800594

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 2 - 15]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 1 - 14]

* Testes

Germinal Epith

Degeneration

Mild

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 37

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 589
 HISTO: 0800595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|---|---------------------------|----------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Marked |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Nephropathy | Moderate |
| | | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 4 - 6+7] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5 - 18] | | |
| | [Leukemia Mononuclear TGLs = 6 - 17] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 9 - 9] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 7 - 15] | | |
| * Pituitary Gland | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 2 - 16] | | |
| * Prostate | | Inflammation | Moderate |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 37

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 589
HISTO: 0800595

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 1 - 14]			
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation Ulcer	Mild Marked Marked
[Ulcer TGLs = 8 - 19]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Germinal Epith Interstit Cell	Degeneration Hyperplasia	Mild Mild
[Degeneration TGLs = 3 - 11]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Minimal Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 38

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 687
 HISTO: 0800596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Marked
	[Nephropathy TGLs = 1 - 5]		
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 8]		
* Prostate		Inflammation	Moderate
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 39

TMT: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular	* Thyroid Gland
Tongue	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign	TGLs = 6 - 8]		
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Minimal
* Kidney		Nephropathy	Marked
[Nephropathy	TGLs = 5 - 5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
[Clear Cell Focus	TGLs = 4 - 23]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 7 - 24]		
* Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
* Skin		Keratoacanthoma	
	Pinna	Squamous Cell Papilloma	
[Keratoacanthoma	TGLs = 2 - 22]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 39

TMT: 1

SEX: Male

DAY ON TEST: 726

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800597

ORGAN AND ACCOUNTABLE SITE STATUS

[Squamous Cell Papilloma TGLs = 1 - 21]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Dysplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3 - 11]			
* Thymus		Atrophy	Moderate
Tongue			

Note: Tongue examined as control tissue for molecular biologic analyses.

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 40

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 593
 HISTO: 0800598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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 | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|---------------------------|---------------------------|----------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Cortex | Inflammation | Focal, Minimal |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | | Thrombosis | Minimal |
| Oral Mucosa | Gingival | Squamous Cell Carcinoma | |
| [Squamous Cell Carcinoma | TGLs = 2 - 15] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| [Hyperplasia | TGLs = 3 - 14] | | |
| * Stomach, Glandular | | Erosion | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma | TGLs = 1 - 11] | | |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Oral Mucosa Gingival Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 41

TMT: 1

SEX: Male

DAY ON TEST: 544

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
	[Leukemia Mononuclear TGLs = 4 - 6+7]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLs = 5 - 8]		
* Prostate		Inflammation	Moderate
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 2 - 15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 41

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 544
HISTO: 0800599

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Hyperplasia	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 42

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 664
 HISTO: 0800600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 16]		
* Preputial Gland		Carcinoma	
	[Carcinoma TGLs = 1 - 14]		
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 2 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Germinal Epith	Degeneration	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	Bilateral, C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 42

TMT: 1

SEX: Male

DAY ON TEST: 664

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800600

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 43

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	Skeletal Muscle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 19]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
		Necrosis	Minimal
	Mesentery		
	[Necrosis TGLs = 3 - 17]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 20]		
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 4 - 18]		
* Prostate	Epithelium	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 43

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800601

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation Mild

Skel Muscle

Note: Muscle examined as control tissue for molecular biologic analyses.

Hematopoietic Cell Proliferation Minimal
 Leukemia Mononuclear
 Pigmentation Hemosiderin, Minimal

* Spleen

[Leukemia Mononuclear TGLs = 1 - 16]

Hyperplasia Moderate

* Testes

Interstit Cell

[Hyperplasia TGLs = 2 - 11]

Atrophy Moderate

* Thymus

Leukemia Mononuclear
 Hyperplasia Marked

* Thyroid Gland

C Cell

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 44

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 607
HISTO: 0800602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|---|----------------------------------|-------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 3 - 15] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Pancreas | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Mild |
| * Skin | | Ulcer | Moderate |
| | [Ulcer TGLs = 1 - 14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2 - 11] | | |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Benign

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 45

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 678
 HISTO: 0800603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* 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	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
* Brain	Cerebellum	Granular Cell Tumor Benign	
* Harderian Gland		Carcinoma	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 3 - 5]		
* Liver		Degeneration	Cystic, Minimal
		Hepatodiaphragmatic Nodule	
	Centrilobular	Necrosis	Moderate
	[Hepatodiaphragmatic Nodule TGLs = 4 - 14]		
* Lung		Carcinoma	Metastatic (Harderian Gland)
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Parathyroid Gland		Hyperplasia	Moderate
	[Hyperplasia TGLs = 6 - 16]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 15]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 45

TMT: 1

SEX: Male

DAY ON TEST: 678

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800603

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation Moderate

Ulcer Minimal

[Inflammation TGLs = 7 - 17]

* Stomach, Glandular

Inflammation Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 1 - 11]

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 46

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	Tongue
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
	Mesentery	Necrosis	Minimal
	[Necrosis TGLs = 3 - 22]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Skin		Inflammation	Mild
	[Inflammation TGLs = 1 - 21]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 46

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800604

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Leukemia Mononuclear Pigmentation Adenoma	Hemosiderin, Minimal
[Adenoma TGLs = 2 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
Tongue			

Note: Tongue examined as control tissue for molecular biologic analyses.

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 47

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Cyst	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Note: Carcinoma has abundant squamous metaplasia.		
	Note: This alveolar-bronchiolar carcinoma has extensive squamous metaplasia.		
	[Alveolar/Bronchiolar Carcinoma TGLs = 1 - 4]		
* Nose		Inflammation	Minimal
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Necrosis	Moderate
	Note: Only a small remnant of pars distalis, some siderophages, and hemorrhage, remain.		
	[Necrosis TGLs = 2 - 15]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Germinal Epith	Degeneration	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 47

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800605

ORGAN AND ACCOUNTABLE SITE STATUS

	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 48

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 610
HISTO: 0800606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Accumulation, Hyaline Droplet	Mild
		Mineralization	Minimal
		Nephropathy	Moderate
	[Nephropathy TGLs = 4 - 5]		
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6 + 7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 6 - 16]		
* Prostate		Inflammation	Marked
	[Inflammation TGLs = 5 - 15]		
* Seminal Vesicle		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 48

TMT: 1

SEX: Male

DAY ON TEST: 610

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800606

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear	Mild
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
	Note: TGL-2 also due to interstitial cell hyperplasia in the other testis. [Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 52

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 561
HISTO: 0800610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign	TGLs = 2 - 15]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule	TGLs = 1 - 14]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 3 - 16]		
* Prostate		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 52

TMT: 1

SEX: Male

DAY ON TEST: 561

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800610

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 53

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 680
HISTO: 0800611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 15]		
* Preputial Gland		Carcinoma	
	[Carcinoma TGLs = 1 - 14]		
* Prostate		Inflammation	Minimal
* Seminal Vesicle		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith	Degeneration	Marked
	Interstit Cell	Hyperplasia	Mild
	[Degeneration TGLs = 2 - 11]		
* Thymus		Atrophy	Marked
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 54

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 671
HISTO: 0800612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Cranium	Osteoma	
	[Osteoma TGLs = 4 - 16]		
* Bone Marrow		Hyperplasia	Marked
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon	Lymphoid Tiss	Leukemia Mononuclear	
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 2 - 6+7]	Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 15]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 54

TMT: 1

SEX: Male

DAY ON TEST: 671

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800612

ORGAN AND ACCOUNTABLE SITE STATUS

Note: TGL-3 also due to interstitial cell tumor in other testis.

[Adenoma TGLs = 3 - 11]

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 60

TMT: 1
DOSE: 0 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 664
HISTO: 0800618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibrous Osteodystrophy	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 3 - 5]		
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Parathyroid Gland		Hyperplasia	Marked
* Prostate		Inflammation	Mild
* Skin		Fibrosarcoma	
	[Fibrosarcoma TGLs = 2 - 15]		
	[Keratoacanthoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Moderate
* Stomach, Glandular		Inflammation	Minimal
		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 60

TMT: 1

SEX: Male

DAY ON TEST: 664

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800618

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 4 - 11]

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 61

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule		
* Lung	TGLs = 1 - 15]		
	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mandibular		Ectasia	Mild
	[Ectasia TGLs = 2 - 16]		
* Nose		Foreign Body	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 5 - 17]		
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Stomach, Glandular		Hyperplasia	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3,4 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 61

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800619

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 62

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 580
 HISTO: 0800620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose	Glands, Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Hyperplasia	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	

[Carcinoma TGLs = 1 - 14]

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 63

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Ear		Neural Crest Tumor	
	[Neural Crest Tumor TGLs = 1 - 15]		
* Eye	Lens	Cataract	Moderate
	Retina	Degeneration	Marked
	[Cataract TGLs = 2 - 10]		
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLs = 4 - 5]		
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 5 - 16]		
* Lymph Node, Mandibular		Ectasia	Mild
	[Ectasia TGLs = 9 - 19]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLs = 7,8 - 17+18]		
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 63

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800621

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 6 - 8]			
* Prostate		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 3 - 11]			
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 64

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | [Hepatodiaphragmatic Nodule | | |
| * Lung | TGLs = 1 - 16] | | |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mandibular | | Ectasia | Minimal |
| | [Ectasia TGLs = 3 - 17] | | |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLs = 2 - 11] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 64

TMT: 1

SEX: Male

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800622

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 65

TMT: 1

SEX: Male

DAY ON TEST: 602

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Atrophy	Mild
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Brain		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung		Inflammation	Chronic Active, Marked
		Leukemia Mononuclear	
	[Inflammation TGLs = 5 - 3+4]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland		Atrophy	Marked
		Leukemia Mononuclear	
	[Atrophy TGLs = 6 - 16]		
* Prostate		Inflammation	Mild
	[Inflammation TGLs = 4 - 13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 65

TMT: 1

SEX: Male

DAY ON TEST: 602

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800623

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Stomach, Glandular		Inflammation	Minimal
* Testes	Interstit Cell	Hyperplasia	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tooth		Degeneration	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 66

TMT: 1
 DOSE: 0 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 664
 HISTO: 0800624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|------------------------------|---------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| [Hepatodiaphragmatic Nodule | TGLs = 2 - 15] | | |
| * Nose | | Foreign Body | |
| | | Inflammation | Mild |
| * Pancreas | | Atrophy | Minimal |
| | Acinus | Hyperplasia | Moderate |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma | TGLs = 1 - 14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma | TGLs = 3 - 11] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 66

TMT: 1

SEX: Male

DAY ON TEST: 664

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800624

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

- Skin Keratoacanthoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 103

TMT: 3

SEX: Male

DAY ON TEST: 595

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLs = 3 - 16]			
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Skin		Fibroma	
		Ulcer	Marked
[Fibroma TGLs = 1 - 15]			
[Ulcer TGLs = 4 - 17]			
* Spleen		Hematopoietic Cell Proliferation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 103

TMT: 3

SEX: Male

DAY ON TEST: 595

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800627

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLs = 2 - 14]

* Testes

Interstitial Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

- Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 104

TMT: 3

SEX: Male

DAY ON TEST: 638

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Epididymis | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 1 - 11+14] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Marked |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 3 - 16] | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| Mesentery | Fat | Necrosis | Minimal |
| | [Necrosis TGLs = 2 - 15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4 - 17] | | |
| * Prostate | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Interstit Cell | Hyperplasia | Moderate |
| | | Mesothelioma Malignant | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 104

TMT: 3

SEX: Male

DAY ON TEST: 638

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800628

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 105

TMT: 3

SEX: Male

DAY ON TEST: 635

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum	Lymphoid Tiss	Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 7 - 7]		
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
[Leukemia Mononuclear	TGLs = 5 - 6+7+15]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia	TGLs = 6 - 16]		
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 1 - 14]		
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 105

TMT: 3

SEX: Male

DAY ON TEST: 635

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800629

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2 - 11]	Interstit Cell	Hyperplasia	Moderate
* Thymus		Atrophy	Moderate
* Urinary Bladder		Inflammation	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 106

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800630

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
	[Hyperplasia TGLs = 1 - 6+7]		
* Spleen		Infarct	Mild
	Note: This infarct is healed and could also be diagnosed as fibrosis.		
	[Infarct TGLs = 2 - 5]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate
	Note: TGL-3 also due to interstitial cell hyperplasia in opposite testis.		
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 113

TMT: 3
 DOSE: 250 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Marked
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 15]		
* Prostate		Inflammation	Mild
	[Inflammation TGLs = 4 - 13]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 113

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800637

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear Pigmentation	Hemosiderin, Minimal
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Testes		Adenoma Hyperplasia	Mild
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland Zymbal's Gland	C Cell	Adenoma Carcinoma	
	[Carcinoma TGLs = 6 - 16]		

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 114

TMT: 3
DOSE: 250 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800638

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 6+7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6 - 16]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7 - 17]		
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 8]		
* Prostate	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 114

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800638

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Inflammation	Minimal
	[Inflammation TGLs = 1 - 15]	Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 115

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 1 - 11]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 3 - 11]		
	[Mesothelioma Malignant TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 116

TMT: 3

SEX: Male

DAY ON TEST: 533

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Gliosis	Minimal
		Infiltration Cellular	Lymphocyte, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Hyperplasia	Marked
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 117

TMT: 3

SEX: Male

DAY ON TEST: 719

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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
* Salivary Glands	* Seminal Vesicle	Spinal Cord	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Eye	Lens	Cataract	Minimal
* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Adenoma	
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
	Centrilobular	Necrosis	Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
Peripheral Nerve		Degeneration	Mild
Note: Wallerian degeneration.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Preputial Gland		Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Skin		Basal Cell Carcinoma	
		Fibroma	
	Epidermis	Hyperkeratosis	Moderate
	[Basal Cell Carcinoma	TGLs = 2 - 15]	
	[Fibroma	TGLs = 3 - 16]	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 117

TMT: 3

SEX: Male

DAY ON TEST: 719

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800641

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperkeratosis TGLs = 1 - 14]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Hemosiderin, Minimal

* Stomach, Forestomach

Inflammation

Minimal

Ulcer

Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 4 - 11]

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Skin Basal Cell Carcinoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 118

TMT: 3

SEX: Male

DAY ON TEST: 688

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Marked
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 118

TMT: 3

SEX: Male

DAY ON TEST: 688

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800642

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 119

TMT: 3
DOSE: 250 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	
* Kidney	Cortex	Cyst	Moderate
		Nephropathy	Marked
		[Cyst TGLs = 3 - 15]	
		[Nephropathy TGLs = 4 - 5]	
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
		[Adenoma TGLs = 6 - 17]	
* Prostate		Inflammation	Moderate
* Skin		Fibroma	
		[Fibroma TGLs = 1 - 14]	
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLs = 2 - 11]	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 119

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800643

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 120

TMT: 3

SEX: Male

DAY ON TEST: 674

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Necrosis	Mild
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLs = 3 - 5]		
* Liver		Degeneration	Cystic, Minimal
		Fatty Change	Diffuse, Mild
		Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
	Bile Duct		
	[Hepatodiaphragmatic Nodule TGLs = 2 - 15]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 16]		
* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Marked
		Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 120

TMT: 3

SEX: Male

DAY ON TEST: 674

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800644

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 6 - 18]

* Stomach, Glandular

Inflammation

Mild

* Testes

Germinal Epith

Degeneration

Marked

Interstit Cell

Hyperplasia

Mild

* Thymus

Atrophy

Moderate

* Thyroid Gland

Follicular Cel

Adenoma

[Adenoma TGLs = 5 - 17]

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Inflammation

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 121

TMT: 3

SEX: Male

DAY ON TEST: 509

DOSE: 250 mg/L

DISP: Natural Death

HISTO: 0800645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin	Sebaceous GI	Adenoma	
	[Adenoma TGLs = 1 - 14]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 122

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Marked
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 123

TMT: 3

SEX: Male

DAY ON TEST: 644

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 3 - 16]		
* Prostate		Inflammation	Minimal
* Skin		Fibroma	
		Inflammation	Moderate
		Ulcer	Mild
	[Fibroma TGLs = 1 - 14]		
	[Ulcer TGLs = 2 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 123

TMT: 3

SEX: Male

DAY ON TEST: 644

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800647

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Marked

PRIMARY CAUSE OF DEATH

- Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 124

TMT: 3

SEX: Male

DAY ON TEST: 685

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Lens	Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 2 - 14]			
* Preputial Gland		Hyperplasia	Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1 - 11]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 125

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
	[Clear Cell Focus TGLs = 3 - 14]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	[Hyperplasia TGLs = 6 - 3]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[Fibroadenoma TGLs = 4 - 15]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 16]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 125

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800649

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 1 - 11]

* Thymus

Atrophy

Marked

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 126

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Nose		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 15]		
* Prostate		Inflammation	Moderate
* Skin		Inflammation	Moderate
	[Inflammation TGLs = 1 - 14]	Ulcer	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith	Degeneration	Mild
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 127

TMT: 3

SEX: Male

DAY ON TEST: 667

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * 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 |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------|---------------------|
| * Adrenal Medulla | | Hyperplasia | Mild |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| | | Mineralization | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| | Mediastinal | Hyperplasia | Lymphoid, Mild |
| | Mediastinal | Infiltration Cellular | Mast Cell, Mild |
| | [Hyperplasia TGLs = 4 - 16] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 5 - 17] | | |
| * Prostate | | Inflammation | Mild |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1 - 14] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 127

TMT: 3

SEX: Male

DAY ON TEST: 667

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800651

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Interstit Cell

Hyperplasia

Mild

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 128

TMT: 3

SEX: Male

DAY ON TEST: 716

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* 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	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Eye	Retina	Gliosis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Marked
	[Nephropathy TGLs = 3 - 5]		
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 8]		
* Prostate		Inflammation	Moderate
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1 - 14]		
* Spleen	Red Pulp	Atrophy	Mild
		Pigmentation	Hemosiderin, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 6 - 11]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 128

TMT: 3

SEX: Male

DAY ON TEST: 716

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800652

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 129

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 16]		
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 17]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
* Skin	Epidermis	Hyperplasia	Squamous, Mild
		Squamous Cell Papilloma	
	[Hyperplasia TGLs = 1 - 14]		
	[Squamous Cell Papilloma TGLs = 3 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 129

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800653

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2 - 11]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 130

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Esophagus
* Eye	* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Brain		Astrocytoma Malignant	
	[Astrocytoma Malignant TGLs = 3 - 16]		
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis	Minimal
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 4 - 17]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 130

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800654

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Leukemia Mononuclear	
* Skin	Sebaceous GI	Adenoma	
[Adenoma TGLs = 1 - 14]			
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
		Leukemia Mononuclear	
* Thyroid Gland	Follicular Cel	Carcinoma	
[Carcinoma TGLs = 2 - 15]			

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 131

TMT: 3

SEX: Male

DAY ON TEST: 530

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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 | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|----------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Marked |
| * Liver | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1 - 14] | | |
| * Prostate | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Mild |
| * Testes | Germinal Epith | Degeneration | Mild |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 132

TMT: 3

SEX: Male

DAY ON TEST: 117

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	

OBSERVATIONS

Blood Vessel	Aorta	Mineralization	Mild
* Eye	Iris	Inflammation	Mild
* Heart		Cardiomyopathy	Mild
		Mineralization	Mild
* Kidney	Pelvis	Dilatation	Mild
	Renal Tubule	Dilatation	Mild
		Mineralization	Moderate
* Prostate		Inflammation	Mild
* Seminal Vesicle		Inflammation	Moderate
	[Inflammation TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Mild
* Urinary Bladder		Inflammation	Marked

PRIMARY CAUSE OF DEATH - Urinary Bladder Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 133

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Carcinoma	
Note: TGL-3 was interpreted to arise in an extracapsular adrenal cortical nodule.			
	[Carcinoma TGLs = 3 - 14]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	[Hepatodiaphragmatic Nodule TGLs = 2 - 15]	Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 4 - 16]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 133

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800657

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 134

TMT: 3
DOSE: 250 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 526
HISTO: 0800658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
	Atrium	Inflammation	Minimal
	Atrium	Thrombosis	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 135

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Eye	Retina	Gliosis	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 16]		
* Prostate		Inflammation	Mild
* Skin	Epidermis	Hyperplasia	Squamous, Mild
	[Hyperplasia TGLs = 2 - 15]	Keratoacanthoma	
	[Keratoacanthoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Marked

Note: TGL-3 also due to interstitial cell hyperplasia.

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 135

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800659

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 3 - 11]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 136

TMT: 3

SEX: Male

DAY ON TEST: 597

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Marked
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 15]		
* Preputial GI			
	Note: TGL-1 = NCL (probable inflammation, not diagnosed).		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Moderate
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith	Degeneration	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 136

TMT: 3

SEX: Male

DAY ON TEST: 597

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800660

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 137

TMT: 3

SEX: Male

DAY ON TEST: 309

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith	Degeneration	Mild
* Thymus		Atrophy	Mild
Zymbal's Gland		Carcinoma	
	[Carcinoma TGLs = 1 - 14]		

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 138

TMT: 3
DOSE: 250 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
	[Hyperplasia TGLs = 2 - 15]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1 - 14]		
* Prostate		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith	Degeneration	Mild
	Interstit Cell	Hyperplasia	Moderate
	Note: At least some of the testicular degeneration is secondary to interstitial cell hyperplasia.		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 139

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Clear Cell Focus TGLs = 2 - 14]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Nose		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 3 - 15]		
* Prostate		Inflammation	Mild
* Seminal Vesicle		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 140

TMT: 3

SEX: Male

DAY ON TEST: 558

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* 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	Peripheral Nerve	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
Spinal Cord			
Note: Spinal cord examined because this rat had paralysis.			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes		Mesothelioma Malignant	
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 141

TMT: 3

SEX: Male

DAY ON TEST: 609

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Thrombosis	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 1 - 5]		
* Liver		Fatty Change	Diffuse, Marked
	[Fatty Change TGLs = 2 - 14]		
	Bile Duct	Hyperplasia	Minimal
* Lung		Hyperplasia	Minimal
	Alveolar Epith	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Atrophy	Minimal
* Pancreas		Adenoma	
* Pituitary Gland			
	[Adenoma TGLs = 3 - 15]		
* Prostate		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach		Hyperplasia	Marked
	Epithelium	Inflammation	Marked
		Ulcer	Mild
	[Hyperplasia TGLs = 4 - 16]		
* Testes		Degeneration	Marked
	Germinal Epith		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 141

TMT: 3

SEX: Male

DAY ON TEST: 609

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800665

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Interstit Cell	Hyperplasia	Minimal
		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 142

TMT: 3

SEX: Male

DAY ON TEST: 702

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 1 - 11]		
* Eye	Lens	Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
	[Nephropathy TGLs = 3 - 5]		
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
	Note: TGL-2 also due to cystic degeneration.		
	[Mixed Cell Focus TGLs = 2 - 6+7+15]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 14]		
* Prostate		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 142

TMT: 3

SEX: Male

DAY ON TEST: 702

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800666

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

Follicular Cel

Adenoma

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 146

TMT: 3
DOSE: 250 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 607
HISTO: 0800670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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

- | | | | |
|------------------------------|----------------|----------------|-------------------------|
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Hemorrhage | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| [Hemorrhage TGLs = 1 - 14] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2 - 15] | | | |
| * Prostate | | Inflammation | Mild |
| * Testes | Germinal Epith | Degeneration | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 147

TMT: 3

SEX: Male

DAY ON TEST: 694

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Epididymis	* Esophagus	* Harderian Gland
* Intestine Large, Cecum	* 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
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone		Pheochromocytoma Benign	
		Osteopetrosis	Mild
	[Osteopetrosis TGLs = 7,8 - 18+19]		
* Bone Marrow		Hyperplasia	Marked
* Brain		Leukemia Mononuclear	
* Eye	Lens	Cataract	Minimal
	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
		Mineralization	Minimal
	Atrium	Thrombosis	Moderate
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 6+7]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 147

TMT: 3

SEX: Male

DAY ON TEST: 694

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800671

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 6 - 17]

[Leukemia Mononuclear TGLs = 5 - 16]

[Leukemia Mononuclear TGLs = 4 - 15]

* Lymph Node, Mandibular

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 10 - 21]

* Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

Leukemia Mononuclear

[Hyperplasia TGLs = 9 - 20]

* Prostate

Inflammation

Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 1 - 14]

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Minimal

[Adenoma TGLs = 3 - 11]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 148

TMT: 3

SEX: Male

DAY ON TEST: 691

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 1 - 5]		
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Minimal
* Nose	Glands, Olfactory Epi	Hyperplasia	Moderate
* Parathyroid Gland		Hyperplasia	Mild
* Prostate		Inflammation	Moderate
* Spleen		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 149

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland		Adenoma	
* Prostate	Pars Distalis	Adenoma	
		Inflammation	Minimal
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 149

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800673

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 150

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 150

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800674

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 151

TMT: 3

SEX: Male

DAY ON TEST: 680

DOSE: 250 mg/L

DISP: Natural Death

HISTO: 0800675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Hemorrhage	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 14]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 152

TMT: 3

SEX: Male

DAY ON TEST: 516

DOSE: 250 mg/L

DISP: Natural Death

HISTO: 0800676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 9 - 11]		
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Amyloid Deposition	Moderate
		Inflammation	Moderate
		Thrombosis	Minimal
	[Amyloid Deposition TGLs = 7,8 - 19]		
* Kidney	Renal Tubule	Dilatation	Minimal
	Pelvis	Dilatation	Mild
		Mineralization	Mild
		Nephropathy	Mild
	[Dilatation TGLs = 5 - 5]		
* Liver	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Moderate
	[Necrosis TGLs = 3 - 16]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 18]		
* Prostate		Hemangiosarcoma	
	[Hemangiosarcoma TGLs = 1 - 14+15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 152

TMT: 3

SEX: Male

DAY ON TEST: 516

DOSE: 250 mg/L

DISP: Natural Death

HISTO: 0800676

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle	Inflammation	Mild
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Testes	Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 4 - 17]		
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Prostate Hemangiosarcoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 153

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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 Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Basophilic Focus TGLs = 7 - 17]		
	[Leukemia Mononuclear TGLs = 5 - 6+7+17]		
* Lung		Inflammation	Chronic Active, Minimal
	[Inflammation TGLs = 8 - 3+4]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 4 - 16]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 2 - 15]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1 - 12]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 153

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800677

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLs = 6 - 11]

* Thymus

Atrophy

Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 154

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Malignant	Mild
	[Pheochromocytoma Malignant TGLs = 3 - 8]		
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Moderate
	[Thrombosis TGLs = 5 - 7+15]		
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
	Note: Most of TGL-6 was likely due to a single dilated sinusoid (not a lesion) more so than the minimal hyperplasia.		
	[Hyperplasia TGLs = 6 - 14]		
* Preputial Gland	Bilateral	Carcinoma	
	[Carcinoma TGLs = 1,2 - 12]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 154

TMT: 3

SEX: Male

DAY ON TEST: 726

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800678

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes [Adenoma TGLs = 4 - 11]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 155

TMT: 3

SEX: Male

DAY ON TEST: 603

DOSE: 250 mg/L

DISP: Natural Death

HISTO: 0800679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla	Bilateral	Carcinoma Pheochromocytoma Benign	Metastatic (Thyroid Gland)
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLs = 4 - 5]		
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Note: Possible cholangiofibrosis (minimal).		
	[Hepatodiaphragmatic Nodule TGLs = 3 - 15]		
* Lung		Carcinoma	Metastatic (Thyroid Gland)
	[Carcinoma TGLs = 2 - 3+4]		
* Prostate		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Carcinoma	
	[Carcinoma TGLs = 1 - 14]		

PRIMARY CAUSE OF DEATH - Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 156

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 14]		
* Prostate		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate
	[Adenoma TGLs = 1- 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 157

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Ectasia	Mild
[Ectasia TGLs = 5 - 15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 3 - 14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 1 - 8]			
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 157

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800681

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 2 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLs = 4 - 8]			

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 160

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 3 - 11]		
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Marked
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
Mesentery		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 4 - 15]		
* Prostate		Inflammation	Mild
* Skin	Epidermis	Hyperplasia	Squamous, Mild
		Inflammation	Moderate
	[Inflammation TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 2 - 11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 160

TMT: 3

SEX: Male

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800684

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 161

TMT: 3

SEX: Male

DAY ON TEST: 722

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLs = 3 - 14]		
* Bone Marrow		Thrombosis	Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
* Kidney		Nephropathy	Marked
	[Nephropathy TGLs = 2 - 5]		
* Liver		Fatty Change	Diffuse, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Hyperplasia	Minimal
	Alveolar Epith	Infiltration Cellular	Histiocyte, Minimal
	Alveolus		
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland		Hyperplasia	Moderate
	Pars Distalis		
	[Hyperplasia TGLs = 5 - 16]		
* Prostate		Inflammation	Moderate
* Spleen		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach		Hyperplasia	Mild
	Epithelium		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 161

TMT: 3

SEX: Male

DAY ON TEST: 722

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800685

ORGAN AND ACCOUNTABLE SITE STATUS

		Inflammation	Moderate
[Inflammation TGLs = 6 - 17]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 162

TMT: 3

SEX: Male

DAY ON TEST: 629

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Moderate
		Thrombosis	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Fatty Change	Diffuse, Minimal
	Bile Duct	Hepatocellular Adenoma	
		Hyperplasia	Mild
		Leukemia Mononuclear	
	[Hepatocellular Adenoma	TGLs = 6 - 18]	
	[Leukemia Mononuclear	TGLs = 5 - 6+7]	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma	TGLs = 7 - 19]	
* Prostate		Inflammation	Mild
* Skin		Fibroma	Multiple

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 162

TMT: 3

SEX: Male

DAY ON TEST: 629

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800686

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLs = 1,3,4 - 14+16+17]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 2 - 15]

* Testes

Germinal Epith

Degeneration

Mild

Interstit Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 163

TMT: 3
 DOSE: 250 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 687
 HISTO: 0800687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Marked
		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
		Thrombosis	Mild
* Brain		Hemorrhage	Minimal
		Leukemia Mononuclear	
* Epididymis		Mesothelioma Malignant	
* Heart	Atrium	Thrombosis	Moderate
	[Thrombosis TGLs = 3 - 16]		
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 6+7+15]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 163

TMT: 3

SEX: Male

DAY ON TEST: 687

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800687

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 4 - 17]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Testes	Interstit Cell	Hyperplasia	Marked
* Thymus		Atrophy	Marked
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 201

TMT: 5

SEX: Male

DAY ON TEST: 621

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11]		
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Moderate
	Centrilobular	Hyperplasia	Minimal
	Bile Duct	Leukemia Mononuclear	
		Mesothelioma Malignant	
	[Fatty Change TGLs = 5 - 6+7+15]		
* Lung		Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 3 - 6]		
* Pancreas		Mesothelioma Malignant	
* Pituitary Gland		Hyperplasia	Mild
* Prostate		Inflammation	Mild
		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 201

TMT: 5

SEX: Male

DAY ON TEST: 621

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800691

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

[Leukemia Mononuclear TGLs = 1 - 14]

Mesothelioma Malignant

* Stomach, Forestomach

* Testes

Interstit Cell

Adenoma

Mesothelioma Malignant

[Mesothelioma Malignant TGLs = 6 - 11]

* Thymus

* Thyroid Gland

* Urinary Bladder

C Cell

Atrophy

Hyperplasia

Mesothelioma Malignant

Marked

Mild

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 202

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 0800692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Adenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Salivary Glands		Atrophy	Mild
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 203

TMT: 5
 DOSE: 500 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 726
 HISTO: 0800693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Atrophy	Marked
		Hemorrhage	Marked
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Hemosiderin, Mild
* Lung	Alveolar Epith	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	[Hyperplasia TGLs = 6 - 16]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7 - 8]		
* Prostate		Inflammation	Mild
* Skin	Epidermis	Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Lipoma	
	[Hyperplasia TGLs = 2 - 15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 203

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800693

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	[Lipoma TGLs = 1 - 14]	Hematopoietic Cell Proliferation Pigmentation	Minimal Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
* Thymus	[Adenoma TGLs = 5 - 11] [Mesothelioma Malignant TGLs = 3 - 11]	Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 204

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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 |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|----------------------|---------------------------|-----------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Nose | | Foreign Body | |
| | | Inflammation | Mild |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Preputial Gland | | Hyperplasia | Mild |
| * Prostate | | Inflammation | Minimal |
| * Skin | | Fibroma | |
| | [Fibroma TGLs = 1 - 14] | | |
| * Spleen | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Interstit Cell | Hyperplasia | Moderate |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 205

TMT: 5

SEX: Male

DAY ON TEST: 611

DOSE: 500 mg/L

DISP: Natural Death

HISTO: 0800695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Prostate		Inflammation	Mild
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes		Mesothelioma Malignant	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Adrenal Cortex Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 206

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Eye	Lens	Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Angiectasis	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 14]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Skin	Epidermis	Hyperplasia	Squamous, Mild
	[Hyperplasia TGLs = 1 - 16]		
* Spleen	Lymph Follic	Atrophy	Mild
		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
		Stromal Hyperplasia	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 206

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800696

ORGAN AND ACCOUNTABLE SITE STATUS

[Stromal Hyperplasia TGLs = 4 - 15]			
* Testes	Germinal Epith	Degeneration	Mild
	Interstit Cell	Hyperplasia	Minimal
[Degeneration TGLs = 3 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 207

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 0800697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|--|---------------|------------------------|------------------------------|
| Blood Vessel | | Aneurysm | Moderate |
| Note: Mesenteric artery aneurysm.
[Aneurysm TGLs = 5 - 17] | | | |
| * Epididymis | | Mesothelioma Malignant | |
| * Eye | Antr Chamber | Inflammation | Marked |
| [Inflammation TGLs = 2 - 15] | | | |
| * Harderian Gland | | Carcinoma | |
| Note: Early Harderian gland carcinoma may have predisposed to eye trauma, although opposite Harderian is very inflamed so may be from damaged eye. | | | |
| * Heart | | Inflammation | Moderate |
| * Kidney | | Cardiomyopathy | Mild |
| | | Mineralization | Minimal |
| * Liver | Bile Duct | Nephropathy | Mild |
| | | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Carcinoma | Metastatic (Harderian Gland) |
| | | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| * Nose | | Foreign Body | |
| | | Inflammation | Minimal |
| * Pancreas | | Atrophy | Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4 - 16] | | | |
| * Preputial Gland | Duct | Hyperplasia | Squamous, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 207

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800697

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Mild
* Skin		Fibrosarcoma	
	[Fibrosarcoma TGLs = 1 - 14]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
		Mesothelioma Malignant	
* Thymus		Atrophy	Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 208

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 587
HISTO: 0800698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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 | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-----------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Mixed Cell Focus | |
| | | Necrosis | Focal, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 1 - 14] | | |
| * Prostate | | Inflammation | Mild |
| * Testes | Germinal Epith | Degeneration | Minimal |
| * Thymus | | Atrophy | Marked |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 209

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Pituitary Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	[Hyperplasia TGLs = 4 - 15]		
* Pancreas	Acinus	Hyperplasia	Marked
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 209

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800699

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 212

TMT: 5

SEX: Male

DAY ON TEST: 702

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Trachea
* Urinary Bladder			

MISSING

* Intestine Large, Cecum

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Ectasia	Mild
	[Ectasia TGLs = 7 - 17]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 16]		
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 6 - 12]		
* Prostate		Inflammation	Mild
* Skin		Fibrosarcoma	
	[Fibrosarcoma TGLs = 1 - 14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 212

TMT: 5

SEX: Male

DAY ON TEST: 702

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800702

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 15]		
* Testes		Bilateral, Interstit Cell	Adenoma
	[Adenoma TGLs = 8 - 11]		
* Thymus		Atrophy	Marked
* Thyroid Gland		C Cell	Hyperplasia
			Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 213

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Blood Vessel		Inflammation	Mild
Note: Testicular arteries were inflamed.			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Accumulation, Hyaline Droplet	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 8]		
* Prostate		Inflammation	Mild
	[Inflammation TGLs = 4 - 13]		
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 213

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800703

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Hyperplasia	Mild
[Hyperplasia TGLs = 3 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 214

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Minimal
* Nose		Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Hyperplasia	Mild
	[Hyperplasia TGLs = 1 - 12]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 215

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Lumbar	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 16]		
	[Leukemia Mononuclear TGLs = 2 - 15]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 17]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
Skeletal Muscle		Fibroma	
	[Fibroma TGLs = 1 - 14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 215

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800705

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Hyperplasia	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 216

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|---------------------------------------|---------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Minimal |
| | | Vacuolization Cytoplasmic | Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| Blood Vessel | | Inflammation | Minimal |
| Note: Testicular artery was inflamed. | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Marked |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2 - 14] | | | |
| * Prostate | Epithelium | Hyperplasia | Minimal |
| | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 216

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800706

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1 - 11]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 217

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Clear Cell Focus TGLs = 2 - 14]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 8]		
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 218

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex [Adenoma TGLs = 10 - 17]	Adenoma	
* Adrenal Medulla	Hyperplasia	Marked
* Bone Marrow	Hyperplasia	Moderate
* Epididymis [Mesothelioma Malignant TGLs = 4 - 11]	Mesothelioma Malignant	
* Heart	Cardiomyopathy	Mild
* Intestine Large, Cecum [Polyp Adenomatous TGLs = 12 - 19]	Polyp Adenomatous	
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Clear Cell Focus	
	Eosinophilic Focus	
	Hepatodiaphragmatic Nodule	
	Hyperplasia	Mild
	Inflammation	Chronic Active, Minimal
	Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLs = 8 - 16]		
[Leukemia Mononuclear TGLs = 9 - 6+7]		
* Lung [Inflammation TGLs = 11 - 18]	Inflammation	Chronic Active, Minimal
Mesentery	Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 218

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800708

ORGAN AND ACCOUNTABLE SITE STATUS

	[Mesothelioma Malignant TGLs = 6 - 20]		
* Nose		Foreign Body Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Minimal
* Skin		Basal Cell Adenoma Fibroma	
	[Basal Cell Adenoma TGLs = 1 - 14]		
	[Fibroma TGLs = 2 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
	[Adenoma TGLs = 7 - 11]		
	[Mesothelioma Malignant TGLs = 5 - 11]		
* Thymus		Atrophy	Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 222

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 635
HISTO: 0800712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Spleen	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 2 - 11+14]		
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
	[Thrombosis TGLs = 5 - 7+16]		
* Liver		Inflammation	Chronic Active, Mild
	Centrilobular	Necrosis	Marked
	Note: TGL-6 accumulation appears to have been due to necrosis of hepatocytes immediately beneath the capsule.		
	[Necrosis TGLs = 6 - 7]		
* Lung		Inflammation	Chronic Active, Minimal
Mesentery		Mesothelioma Malignant	
* Testes		Adenoma	
	Interstitial Cell	Mesothelioma Malignant	
	[Adenoma TGLs = 1 - 11]		
	[Mesothelioma Malignant TGLs = 3 - 15]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant
 CONTRIBUTORY CAUSE OF DEATH - Heart Atrium Thrombosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 223

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 702
HISTO: 0800713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------|-------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Minimal |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hepatodiaphragmatic Nodule | |
| | | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule TGLs = 4 - 16] | | |
| | [Leukemia Mononuclear TGLs = 5 - 16] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | | Foreign Body | |
| | | Inflammation | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| | [Adenoma TGLs = 7 - 18] | | |
| * Prostate | | Inflammation | Mild |
| * Skin | Epidermis | Hyperplasia | Basal Cell, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 223

TMT: 5

SEX: Male

DAY ON TEST: 702

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800713

ORGAN AND ACCOUNTABLE SITE STATUS

Keratoacanthoma

[Keratoacanthoma TGLs = 2 - 15]

* Spleen

Leukemia Mononuclear

Pigmentation

Hemosiderin, Minimal

[Leukemia Mononuclear TGLs = 1 - 14]

* Testes

Germinal Epith

Degeneration

Mild

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 224

TMT: 5

SEX: Male

DAY ON TEST: 618

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatocholangiocarcinoma	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 15]		
* Prostate		Inflammation	Moderate
* Skin	Sebaceous GI	Adenoma	
	[Adenoma TGLs = 1 - 14]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Moderate
		Ulcer	Moderate
	[Ulcer TGLs = 3 - 16]		
* Stomach, Glandular		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 224

TMT: 5

SEX: Male

DAY ON TEST: 618

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800714

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith	Degeneration	Mild
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 228

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLs = 3 - 14]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
	[Nephropathy TGLs = 4 - 5]		
* Liver		Basophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
	[Hepatocellular Adenoma TGLs = 6 - 18]		
	[Mixed Cell Focus TGLs = 7 - 17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Hyperplasia	Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 16]		
* Prostate		Inflammation	Minimal
* Skin		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 228

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800718

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen	[Keratoacanthoma TGLs = 1 - 15]	Hematopoietic Cell Proliferation Pigmentation	Minimal Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
* Thymus	[Adenoma TGLs = 5 - 11]	Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 229

TMT: 5
 DOSE: 500 mg/L

SEX: Male
 DISP: Moribund Sacrifice

DAY ON TEST: 667
 HISTO: 0800719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 15]		
* Prostate		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith	Degeneration	Mild
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 230

TMT: 5

SEX: Male

DAY ON TEST: 685

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Brain		Oligodendroglioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Minimal
* Nose		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 15]		
* Prostate		Inflammation	Mild
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 2 - 11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 230

TMT: 5

SEX: Male

DAY ON TEST: 685

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800720

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

Bilateral, C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 231

TMT: 5

SEX: Male

DAY ON TEST: 657

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 6+7]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 3+4]		
	Lymph Node Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 16]		
* Lymph Node, Mandibular		Ectasia	Moderate
		Leukemia Mononuclear	
	[Ectasia TGLs = 3 - 15]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 231

TMT: 5

SEX: Male

DAY ON TEST: 657

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800721

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Testes	Germinal Epith	Degeneration	Mild
	Interstit Cell	Hyperplasia	Mild
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 232

TMT: 5

SEX: Male

DAY ON TEST: 685

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Bone Marrow | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * 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 | * Stomach, Forestomach |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---------------------------------------|---------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Adrenal Medulla | | Hyperplasia | Moderate |
| Blood Vessel | | Inflammation | Minimal |
| Note: Testicular artery was inflamed. | | | |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLs = 1 - 14] | | | |
| * Nose | | Inflammation | Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 3 - 16] | | | |
| * Prostate | | Cyst | Mild |
| | | Inflammation | Mild |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma TGLs = 2 - 15] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 232

TMT: 5

SEX: Male

DAY ON TEST: 685

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800722

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular	Epithelium	Hyperplasia	Focal, Minimal
* Testes	Interstit Cell	Hyperplasia	Moderate
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 233

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 453
HISTO: 0800723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Necrosis	Multifocal, Mild
* Testes	Germinal Epith	Degeneration	Moderate
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Liver Necrosis

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 236

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 587
HISTO: 0800726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 15]		
* Prostate		Inflammation	Mild
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLs = 1 - 14]	Inflammation	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
* Testes	Interstit Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 236

TMT: 5

SEX: Male

DAY ON TEST: 587

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800726

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 237

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
		Fibrosis	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Oral Mucosa		Squamous Cell Papilloma	
Note: Papilloma noted in routine nasal section on palate.			
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 8]		
* Preputial Gland		Adenoma	
	Duct	Inflammation	Marked
	[Adenoma TGLs = 2 - 12]		
	[Inflammation TGLs = 1 - 14]		
* Prostate		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 237

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800727

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Pigmentation Adenoma Mesothelioma Malignant	Hemosiderin, Minimal
[Adenoma TGLs = 4 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 238

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan Polyp Adenomatous	
	[Polyp Adenomatous TGLs = 5 - 16]		
* Kidney		Nephropathy	Moderate
* Liver		Angiectasis Clear Cell Focus	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Pigmentation	Hemosiderin, Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
	[Hyperplasia TGLs = 6 - 17]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 2 - 15]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
	[Inflammation TGLs = 4 - 13]		
* Skin		Inflammation	Moderate
	[Inflammation TGLs = 1 - 14]	Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 238

TMT: 5

SEX: Male

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800728

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 239

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 493
HISTO: 0800729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-----------------------------------|----------------|-------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 2 - 15] | | | |
| * Prostate | | Inflammation | Mild |
| * Seminal Vesicle | | Hyperplasia | Mild |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma TGLs = 1 - 14] | | | |
| * Spleen | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Interstit Cell | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Mild |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 240

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 646
HISTO: 0800730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|----------------|---------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Prostate | | Inflammation | Minimal |
| * Spleen | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Interstit Cell | Hyperplasia | Marked |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| Tongue | | Squamous Cell Carcinoma | |

[Squamous Cell Carcinoma TGLs = 1 - 14]

PRIMARY CAUSE OF DEATH - Tongue Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 241

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Mild
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
[Ectasia TGLs = 2 - 14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Seminal Vesicle		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1 - 11]			
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 242

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 4 - 6+7+17]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Ectasia	Marked
	[Ectasia TGLs = 5 - 18]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 19]		
* Prostate	Epithelium	Hyperplasia	Mild
* Skin	Sebaceous GI	Adenoma	
		Squamous Cell Carcinoma	
	[Adenoma TGLs = 2 - 16]		
	[Squamous Cell Carcinoma TGLs = 1 - 15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 14]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 242

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800732

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 243

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|----------------------------------|----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Prostate | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Mesothelioma Malignant | |
| | [Adenoma TGLs = 1 - 11] | | |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 244

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 712
HISTO: 0800734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
		Inflammation	Minimal
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 4 - 11]			
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Mild
* Intestine Large, Cecum		Erosion	Minimal
		Inflammation	Minimal
* Kidney		Mineralization	Mild
		Nephropathy	Mild
[Stromal Nephroma TGLs = 2 - 14]		Stromal Nephroma	
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 5 - 15]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Mild
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 244

TMT: 5

SEX: Male

DAY ON TEST: 712

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800734

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Mild
		Inflammation	Mild
		Mineralization	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Marked
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Kidney Stromal Nephroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 245

TMT: 5

SEX: Male

DAY ON TEST: 688

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Esophagus	* Eye
* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
	Bilateral	Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
* Brain		Astrocytoma Malignant	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	[Leukemia Mononuclear TGLs = 9 - 5]		
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Moderate
	Oval Cell	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8 - 3+4]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 17]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 2 - 15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 245

TMT: 5

SEX: Male

DAY ON TEST: 688

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800735

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLs = 6 - 18]		
* Prostate		Inflammation	Mild
Skeletal Muscle		Mesothelioma Malignant	
	Note: Mesothelioma is on the surface of the diaphragm.		
	[Mesothelioma Malignant TGLs = 4 - 16]		
* Skin	Epidermis	Hyperkeratosis	Marked
		Inflammation	Mild
	[Hyperkeratosis TGLs = 7 - 19]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Testes	Interstit Cell	Hyperplasia	Moderate
		Mesothelioma Malignant	
* Thymus		Atrophy	Moderate
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 246

TMT: 5

SEX: Male

DAY ON TEST: 442

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Centrilobular	Degeneration	Minimal
		Fatty Change	Diffuse, Mild
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Oral Mucosa		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 4 - 16]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 17]		
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 1 - 14]		
* Prostate		Inflammation	Mild
* Skin		Fibroma	
	[Fibroma TGLs = 2 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Germinal Epith	Degeneration	Moderate
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 246

TMT: 5

SEX: Male

DAY ON TEST: 442

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800736

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH - Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 247

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Natural Death

DAY ON TEST: 605
HISTO: 0800737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Mammary Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Mild
* Kidney		Mineralization	Minimal
* Liver		Cholangiocarcinoma	
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Marked
		Regeneration	Moderate
		Thrombosis	Moderate

Note: Liver thrombosis may be secondary to the tumor and is probably the cause of the necrosis and resulting regeneration (the correlates to TGLs).

Note: The thrombosed vein is probably the caudal vena cava where it runs through the liver.

[Cholangiocarcinoma TGLs = 8 - 19]
 [Necrosis TGLs = 4 - 6+7+16+17+18+19+20]
 [Regeneration TGLs = 5,6,7,9 - 16+17+18+20]

* Lung	Alveolar Epith	Metaplasia	Mild
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLs = 3 - 15]		
* Nose		Foreign Body	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 247

TMT: 5

SEX: Male

DAY ON TEST: 605

DOSE: 500 mg/L

DISP: Natural Death

HISTO: 0800737

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Inflammation	Mild
		Hyperplasia	Minimal
		Necrosis	Minimal
* Prostate		Inflammation	Mild
* Seminal Vesicle		Inflammation	Marked
	[Inflammation TGLs = 2 - 14]		
* Spleen	Lymph Follic	Atrophy	Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Liver Thrombosis

CONTRIBUTORY CAUSE OF DEATH - Liver Centrilobular Necrosis

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 248

TMT: 5

SEX: Male

DAY ON TEST: 699

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Epididymis	* Esophagus
* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Brain		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8 - 17]		
* Eye	Retina	Degeneration	Minimal
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung	Alveolar Epith Alveolus	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Lumbar	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 16]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Minimal
* Seminal Vesicle		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 248

TMT: 5

SEX: Male

DAY ON TEST: 699

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800738

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 2 - 15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate
	[Adenoma TGLs = 6 - 11]		
* Thymus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7 - 3]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 252

TMT: 5
 DOSE: 500 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 726
 HISTO: 0800742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
* Lung	Bile Duct	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Renal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLs = 3 - 15]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
[Hemangiosarcoma TGLs = 2 - 14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 1 - 11]			
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 253

TMT: 5

SEX: Male

DAY ON TEST: 513

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Minimal
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 254

TMT: 5

SEX: Male

DAY ON TEST: 724

DOSE: 500 mg/L

DISP: Natural Death

HISTO: 0800744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLs = 3 - 15]		
* Brain		Gliosis	Mild
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Minimal
* Kidney	Renal Tubule	Adenoma	
		Mineralization	Minimal
	[Adenoma TGLs = 5 - 16]	Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Inflammation	Acute, Mild
* Lung	Alveolar Epith	Hyperplasia	Marked
	[Hyperplasia TGLs = 4 - 4]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Preputial Gland		Adenoma	
	[Adenoma TGLs = 1 - 14]		
* Prostate		Inflammation	Minimal
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 254

TMT: 5

SEX: Male

DAY ON TEST: 724

DOSE: 500 mg/L

DISP: Natural Death

HISTO: 0800744

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 2 - 11]

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 255

TMT: 5

SEX: Male

DAY ON TEST: 674

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Mineralization	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
	[Thrombosis TGLs = 7 - 7]		
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 4,5 - 6+7+16]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Lymph Node	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 15]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 9 - 17]		
* Prostate		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 255

TMT: 5

SEX: Male

DAY ON TEST: 674

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800745

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 8 - 18]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Stomach, Forestomach		Inflammation	Minimal
		Squamous Cell Papilloma	
* Testes		Adenoma	
		Hyperplasia	Mild
	[Adenoma TGLs = 3 - 11]		
* Thyroid Gland		Hyperplasia	Minimal
	C Cell		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 256

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 2 - 11]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 7 - 17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 5 - 15]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 8 - 14]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
	[Inflammation TGLs = 6 - 13]		
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 16]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 256

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800746

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 4 - 11]		
	[Mesothelioma Malignant TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 257

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 585
HISTO: 0800747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|------------------------|-------------------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Marked |
| * Liver | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | | Tension Lipidosis | Minimal |
| | [Tension Lipidosis TGLs = 1 - 14] | | |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| * Prostate | | Inflammation | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 261

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Harderian Gland | * 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 | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|---|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Marked |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Epididymis | | Mesothelioma Malignant | |
| | [Mesothelioma Malignant TGLs = 4 - 11] | | |
| * Eye | Retina | Degeneration | Minimal |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Nephropathy | Moderate |
| | [Nephropathy TGLs = 9 - 5] | | |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Mild |
| * Lung | Bile Duct | Hyperplasia | Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Osteosarcoma | Metastatic (Tissue Nos) |
| Lymph Node | Renal | Hemangiosarcoma | |
| | Mediastinal | Hyperplasia | Mild |
| | Lumbar | Infiltration Cellular | Histiocyte, Mild |
| | | Note: Mediastinal lymph node has hyperplasia of various cell types: mast cells, plasma cells, histiocytes, and neutrophils - a truly reactive lymph node. | |
| | [Hemangiosarcoma TGLs = 6 - 14] | | |
| | [Hyperplasia TGLs = 11 - 17] | | |
| | [Infiltration Cellular TGLs = 14 - 20] | | |
| * Pancreas | Acinus | Adenoma | |
| | | Atrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 261

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800751

ORGAN AND ACCOUNTABLE SITE STATUS

	Acinus	Hyperplasia	Marked
[Adenoma TGLs = 7,8 - 16]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 13 - 19]			
* Prostate		Inflammation	Mild
[Inflammation TGLs = 5 - 13]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLs = 1 - 15]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
		Mesothelioma Malignant	
[Adenoma TGLs = 2 - 11]			
[Mesothelioma Malignant TGLs = 3 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 262

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 5 - 11]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 16]		
* Pancreas	Acinus	Hyperplasia	Moderate
* Prostate		Inflammation	Minimal
* Seminal Vesicle		Mesothelioma Malignant	
* Skin		Fibroma	
	Epidermis	Hyperkeratosis	Marked
	Epidermis	Hyperplasia	Squamous, Mild
	[Fibroma TGLs = 2 - 14]		
	[Hyperkeratosis TGLs = 1 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 262

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800752

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

Mesothelioma Malignant

[Mesothelioma Malignant TGLs = 6 - 11]

* Thymus

Atrophy

Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 263

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 674
HISTO: 0800753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLs = 2 - 15]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
* Skin		Fibroma	
[Fibroma TGLs = 1 - 14]			
* Spleen	Lymph Follic	Atrophy	Mild
	Red Pulp	Atrophy	Marked
		Hematopoietic Cell Proliferation	Moderate
[Atrophy TGLs = 3 - 16]		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 263

TMT: 5

SEX: Male

DAY ON TEST: 674

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800753

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 264

TMT: 5
DOSE: 500 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 0800754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 4 - 17]		
* Prostate		Inflammation	Mild
* Skin	Epidermis	Hyperkeratosis	Moderate
		Inflammation	Mild
		Keratoacanthoma	
	[Hyperkeratosis TGLs = 2 - 15]		
	[Inflammation TGLs = 1 - 14]		
	[Keratoacanthoma TGLs = 3 - 16]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 264

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800754

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Marked

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 265

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* 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
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11]		
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 15]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 14]		
* Prostate	Epithelium	Hyperplasia	Marked
		Inflammation	Minimal
		Mesothelioma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 265

TMT: 5

SEX: Male

DAY ON TEST: 726

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800755

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

[Mesothelioma Malignant TGLs = 5 - 11]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 304

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone		Osteoma	
* Eye	Lens	Cataract	Moderate
	Retina	Degeneration	Marked
	[Cataract TGLs = 2 - 14]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Fibrosis	Mild
		Inflammation	Chronic Active, Mild
	[Alveolar/Bronchiolar Carcinoma TGLs = 3 - 3]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 304

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800760

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 1 - 11]

* Thymus

Atrophy

Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 305

TMT: 7

SEX: Male

DAY ON TEST: 657

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
	Centrilobular	Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Moderate
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 17]		
* Prostate		Inflammation	Mild
* Skin		Fibrosarcoma	Multiple
		Keratoacanthoma	
	[Fibrosarcoma TGLs = 1,3 - 14+16]		
	[Keratoacanthoma TGLs = 2 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 305

TMT: 7

SEX: Male

DAY ON TEST: 657

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800761

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith	Pigmentation	Hemosiderin, Minimal
* Thymus		Degeneration	Mild
* Thyroid Gland	C Cell	Atrophy	Marked
		Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Skin Fibrosarcoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 306

TMT: 7

SEX: Male

DAY ON TEST: 653

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
		Myelofibrosis	Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Minimal
	Centrilobular	Degeneration	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 4 - 17]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5 - 18]			
* Skin		Basal Cell Adenoma	
		Keratoacanthoma	
[Basal Cell Adenoma TGLs = 1 - 14]			
[Keratoacanthoma TGLs = 2 - 16]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLs = 3 - 15]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 306

TMT: 7

SEX: Male

DAY ON TEST: 653

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800762

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Erosion	Mild
* Testes	Interstit Cell	Adenoma Mesothelioma Malignant	
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Basal Cell Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 310

TMT: 7

SEX: Male

DAY ON TEST: 674

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11+16]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Centrilobular	Degeneration	Minimal
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Mild
	[Degeneration TGLs = 6 - 17]	Mesothelioma Malignant	
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolar Epith	Hypertrophy	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 5 - 15]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Mesothelioma Malignant	
* Prostate		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 310

TMT: 7

SEX: Male

DAY ON TEST: 674

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800766

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 3 - 11+16]		
* Thymus		Atrophy	Moderate
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 311

TMT: 7
DOSE: 1000 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 561
HISTO: 0800767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
		Necrosis	Mild
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
		Thrombosis	Mild
	[Leukemia Mononuclear TGLs = 2 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 311

TMT: 7

SEX: Male

DAY ON TEST: 561

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800767

ORGAN AND ACCOUNTABLE SITE STATUS

Mesothelioma Malignant

Atrophy

Moderate

* Thymus

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 312

TMT: 7

SEX: Male

DAY ON TEST: 705

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Mild
	[Inflammation TGLs = 3 - 3+4]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Mild
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Marked
		Thymoma Benign	
* Thyroid Gland	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 312

TMT: 7

SEX: Male

DAY ON TEST: 705

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800768

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 313

TMT: 7

SEX: Male

DAY ON TEST: 481

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* 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	* Skin	* Stomach, Forestomach	* Trachea

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 14]		
* Prostate		Inflammation	Minimal
		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
	[Hemangiosarcoma TGLs = 2 - 15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 313

TMT: 7

SEX: Male

DAY ON TEST: 481

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800769

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
		Leukemia Mononuclear	
* Thyroid Gland		Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
Zymbal's Gland		Carcinoma	
[Carcinoma	TGLs = 3 - 16]		

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 314

TMT: 7

SEX: Male

DAY ON TEST: 642

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland	* Pituitary Gland
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
		Tension Lipidosis	Mild
	[Tension Lipidosis TGLs = 4 - 16]		
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Atrophy	Moderate
* Skin		Inflammation	Marked
		Keratoacanthoma	Multiple
		Ulcer	Moderate
	[Inflammation TGLs = 5 - 17]		
	[Keratoacanthoma TGLs = 1,2 - 14+15]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 314

TMT: 7

SEX: Male

DAY ON TEST: 642

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800770

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma	
[Adenoma TGLs = 3 - 11]			
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Marked
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLs = 6 - 18]			

PRIMARY CAUSE OF DEATH - Tongue Squamous Cell Carcinoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 315

TMT: 7
DOSE: 1000 mg/L

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 726
HISTO: 0800771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Pancreas
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Skin		Fibroma	
		Keratoacanthoma	
	[Fibroma TGLs = 1 - 14]		
	[Keratoacanthoma TGLs = 2 - 15]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 316

TMT: 7

SEX: Male

DAY ON TEST: 587

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0800772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Mammary Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Liver		Congestion	Marked
	Centrilobular	Degeneration	Moderate
	Bile Duct	Hyperplasia	Minimal
	Centrilobular	Necrosis	Mild
	[Degeneration TGLs = 3 - 6+7]		
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[Hemorrhage TGLs = 4 - 14]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma	
		Mesothelioma Malignant	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 317

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11]		
* Eye	Retina	Degeneration	Moderate
* Heart		Cardiomyopathy	Moderate
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Cyst	Moderate
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Cyst TGLs = 6,8 - 15+17]		
	[Leukemia Mononuclear TGLs = 7 - 16]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 317

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800773

ORGAN AND ACCOUNTABLE SITE STATUS

	[Mesothelioma Malignant TGLs = 3 - 19]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Mild
* Skin	Epidermis	Hyperplasia	Squamous, Mild
	[Hyperplasia TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 5 - 11]		
* Thymus		Atrophy	Moderate
Tongue	Epithelium	Hyperplasia	Mild
	[Hyperplasia TGLs = 9 - 18]		

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 318

TMT: 7

SEX: Male

DAY ON TEST: 664

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0800774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Moderate
	[Pheochromocytoma Benign TGLs = 2 - 14]		
* Bone Marrow			
	Note: There is a small fibrous lesion surrounded by bone in the diaphyseal marrow.		
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Mild Chronic Active, Minimal
* Pancreas		Atrophy	Marked
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma Mesothelioma Malignant	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Benign

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 320

TMT: 7

SEX: Male

DAY ON TEST: 629

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Mild
* Bone	Tibia	Fracture	
Note: Healing fracture. [Fracture TGLs = 6 - 17]			
* Bone Marrow		Hyperplasia	Moderate
		Thrombosis	Minimal
* Heart	Atrium	Thrombosis	Moderate
[Thrombosis TGLs = 3 - 7]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	Centrilobular	Necrosis	Moderate
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hypertrophy	Minimal
[Alveolar/Bronchiolar Carcinoma TGLs = 5 - 3]			
* Nose		Foreign Body	
		Inflammation	Minimal
	Olfactory Epi	Metaplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Prostate		Inflammation	Moderate
* Skin		Basal Cell Carcinoma	
		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 320

TMT: 7

SEX: Male

DAY ON TEST: 629

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800776

ORGAN AND ACCOUNTABLE SITE STATUS

[Basal Cell Carcinoma TGLs = 2 - 15]

[Keratoacanthoma TGLs = 1 - 14]

* Spleen

Hematopoietic Cell Proliferation

Moderate

Hemorrhage

Mild

Stromal Hyperplasia

[Hemorrhage TGLs = 8 - 16]

[Stromal Hyperplasia TGLs = 7 - 16]

* Stomach, Glandular

Mineralization

Minimal

* Testes

Germinal Epith

Degeneration

Mild

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - Skin Basal Cell Carcinoma

CONTRIBUTORY CAUSE OF DEATH - Heart Atrium Thrombosis

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 321

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone	Tendon	Fibrosarcoma	
Note: Original diagnosis site = tibia, but it appears to involve the tendon only, not the bone itself.			
[Fibrosarcoma TGLs = 10 - 19]			
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 4 - 11]			
* Heart		Cardiomyopathy	Moderate
* Intestine Large, Colon		Polyp Adenomatous	
[Polyp Adenomatous TGLs = 13 - 21]			
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Degeneration	Cystic, Minimal
		Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
[Hyperplasia TGLs = 9 - 6+7]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Marked
[Hyperplasia TGLs = 11 - 3]			
* Lymph Node, Mesenteric		Ectasia	Moderate
[Ectasia TGLs = 12 - 20]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLs = 6 - 16]			
* Nose		Inflammation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 321

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800777

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Moderate
		Inflammation	Minimal
		Mesothelioma Malignant	
* Skin		Inflammation	Marked
		Keratoacanthoma	
		Ulcer	Mild
	[Inflammation TGLs = 2 - 15]		
	[Keratoacanthoma TGLs = 1 - 14]		
* Spleen		Stromal Hyperplasia	
	[Stromal Hyperplasia TGLs = 7,8 - 17+18]		
* Stomach, Forestomach		Mesothelioma Malignant	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 3 - 11]		
	[Mesothelioma Malignant TGLs = 5 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 322

TMT: 7

SEX: Male

DAY ON TEST: 586

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 3 - 11]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Inflammation	Chronic Active, Mild
* Lung		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 14]		
* Prostate		Inflammation	Mild
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith Interstit Cell	Degeneration	Marked
		Hyperplasia	Marked
		Mesothelioma Malignant	
	[Degeneration TGLs = 1 - 11]		
	[Mesothelioma Malignant TGLs = 2 - 11]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 323

TMT: 7

SEX: Male

DAY ON TEST: 436

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Sebaceous GI	Adenoma	
	Epidermis	Hyperplasia	Basal Cell, Marked
	[Adenoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Testes	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Cyst	Minimal

PRIMARY CAUSE OF DEATH - Skin Sebaceous GI Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 324

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
* Nose		Inflammation	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 15]		
* Prostate		Inflammation	Moderate
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 328

TMT: 7

SEX: Male

DAY ON TEST: 548

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Minimal
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	Multiple
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Cyst	Minimal
	C Cell	Hyperplasia	Minimal
Zymbal's Gland		Carcinoma	
	[Carcinoma TGLs = 1 - 14]		

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 329

TMT: 7

SEX: Male

DAY ON TEST: 602

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Preputial Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Marked
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 2 - 11]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
	Note: In this and other animals with mesothelioma involving gut sections, mesothelioma was not diagnosed in all sections of gut, only mesentery.		
	[Mesothelioma Malignant TGLs = 3 - 14]		
* Pancreas		Atrophy	Minimal
		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Mild
	Note: Hyperplasia appears distinct from the small adenoma.		
* Prostate		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 329

TMT: 7

SEX: Male

DAY ON TEST: 602

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800785

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular

Mesothelioma Malignant

* Testes

Interstit Cell

Adenoma

Mesothelioma Malignant

Note: One testis was involved in extensive mesothelioma and was not discernible on the slide.

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 330

TMT: 7

SEX: Male

DAY ON TEST: 573

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
* Eye	Cornea	Inflammation	Moderate
	[Inflammation TGLs = 5 - 10]		
* Harderian Gland		Hyperplasia	Squamous, Moderate
		Metaplasia	Squamous, Mild
	Note: Inflammation was interpreted to be secondary to keratin within dermis, associated with squamous metaplasia.		
	[Hyperplasia TGLs = 6 - 14]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Eosinophilic Focus TGLs = 4 - 16]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
	Fat	Necrosis	Minimal
	[Mesothelioma Malignant TGLs = 2 - 15]		
* Pancreas		Mesothelioma Malignant	
* Prostate		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 330

TMT: 7

SEX: Male

DAY ON TEST: 573

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800786

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle		Mesothelioma Malignant	
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 333

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone	Cartilage, Sternum	Degeneration	Mild
	[Degeneration TGLs = 8 - 17]		
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11]		
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 7 - 6+7]	Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 9 - 18]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 333

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800789

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Fibroma	
		Inflammation	Marked
		Ulcer	Marked
	[Fibroma TGLs = 3 - 16]		
	[Inflammation TGLs = 1 - 14]		
	[Ulcer TGLs = 2 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 6 - 11]		
	[Mesothelioma Malignant TGLs = 5 - 11]		
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 334

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 3 - 11]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate		Inflammation	Minimal
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 334

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800790

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 4 - 11]

[Mesothelioma Malignant TGLs = 2 - 11]

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Adenoma

[Adenoma TGLs = 5 - 8]

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 335

TMT: 7

SEX: Male

DAY ON TEST: 707

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0800791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolar Epith	Hypertrophy	Mild
		Inflammation	Chronic Active, Mild
* Pancreas	Acinus	Adenoma	
		Atrophy	Mild
	Acinus	Hyperplasia	Minimal
	[Adenoma TGLs = 2 - 15]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1 - 14]		
* Prostate		Inflammation	Minimal
* Skin		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Testes	Germinal Epith	Degeneration	Moderate
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 335

TMT: 7

SEX: Male

DAY ON TEST: 707

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0800791

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 336

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 8]		
* Prostate		Inflammation	Moderate
* Skin		Fibroma	
		Keratoacanthoma	Multiple
	[Fibroma TGLs = 2 - 15]		
	[Keratoacanthoma TGLs = 1,3 - 14+16]		
* Testes	Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 4 - 11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 336

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800792

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 339

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Osteopetrosis	Mild
	[Osteopetrosis TGLs = 4 - 17]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
	[Hyperplasia TGLs = 2 - 16]		
* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 15]		
* Prostate	Epithelium	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 1 - 11]		
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 339

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800795

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Carcinoma

[Carcinoma TGLs = 3 - 14]

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 340

TMT: 7

SEX: Male

DAY ON TEST: 678

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11+18]		
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Atypical, Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Mild
* Skin		Fibroma	Multiple
	[Fibroma TGLs = 1,2,3 - 14+15+16]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 6 - 11+17]		
	[Mesothelioma Malignant TGLs = 5 - 11+17]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 340

TMT: 7

SEX: Male

DAY ON TEST: 678

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800796

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 341

TMT: 7

SEX: Male

DAY ON TEST: 664

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Marked
	[Thrombosis TGLs = 3 - 7]		
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Mild
	Centrilobular	Fatty Change	Diffuse, Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 6+7]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 15]		
* Prostate		Inflammation	Mild
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
	[Leukemia Mononuclear TGLs = 1 - 14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 341

TMT: 7

SEX: Male

DAY ON TEST: 664

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800797

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Germinal Epith	Degeneration	Mild
	Interstit Cell	Hyperplasia	Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 342

TMT: 7

SEX: Male

DAY ON TEST: 621

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Mesothelioma Malignant	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Mesentery		Mesothelioma Malignant	
	Fat	Necrosis	Mild
	[Mesothelioma Malignant TGLs = 3 - 16]		
	[Necrosis TGLs = 4 - 16]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 17]		
* Prostate		Inflammation	Mild
		Mesothelioma Malignant	
* Seminal Vesicle		Hyperplasia	Moderate
		Mesothelioma Malignant	
* Skin		Fibroma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 342

TMT: 7

SEX: Male

DAY ON TEST: 621

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800798

ORGAN AND ACCOUNTABLE SITE STATUS

Keratoacanthoma

[Fibroma TGLs = 1 - 14]

[Keratoacanthoma TGLs = 2 - 15]

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Hemosiderin, Minimal

* Testes

Mesothelioma Malignant

* Thymus

Atrophy

Marked

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Urinary Bladder

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH - Epididymis Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH - Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 343

TMT: 7

SEX: Male

DAY ON TEST: 610

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Eosinophilic Focus TGLs = 6,7 - 18+19]		
	[Hyperplasia TGLs = 9 - 20]		
	[Leukemia Mononuclear TGLs = 3 - 6+7+16+17+18+19+20]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Inguinal	Ectasia	Moderate
	Iliac	Ectasia	Mild
	Iliac	Hyperplasia	Lymphoid, Moderate
	Renal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Iliac	Necrosis	Lymphoid, Mild
	[Ectasia TGLs = 14 - 23]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 343

TMT: 7

SEX: Male

DAY ON TEST: 610

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800799

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 11 - 21]

[Leukemia Mononuclear TGLs = 10 - 24]

[Leukemia Mononuclear TGLs = 12 - 22]

* Lymph Node, Mandibular

Leukemia Mononuclear

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Nose

Foreign Body

Inflammation

Minimal

* Pancreas

Acinus

Hyperplasia

Moderate

* Pituitary Gland

Pars Distalis

Hyperplasia

Minimal

* Preputial Gland

Carcinoma

[Carcinoma TGLs = 1 - 15]

* Prostate

Inflammation

Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 2 - 14]

* Testes

Germinal Epith

Degeneration

Mild

[Degeneration TGLs = 8 - 11]

* Thymus

Atrophy

Mild

* Thyroid Gland

Follicular Cel

Adenoma

[Adenoma TGLs = 13 - 8]

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 344

TMT: 7
 DOSE: 1000 mg/L

SEX: Male
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 3 - 11]		
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Hyperplasia	Mild
	Bile Duct	Inflammation	Chronic Active, Minimal
* Lung		Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Atrophy	Moderate
* Pituitary Gland		Adenoma	
	[Adenoma TGLs = 2 - 8]		
* Prostate		Hyperplasia	Minimal
	Epithelium	Inflammation	Mild
		Mesothelioma Malignant	
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLs = 1 - 14]		
* Testes		Adenoma	
	Interstit Cell	Hyperplasia	Minimal
	Interstit Cell	Mesothelioma Malignant	
	[Adenoma TGLs = 5 - 11]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 344

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800800

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLs = 4 - 11]

* Thymus

Atrophy

Moderate

Thymoma Benign

* Thyroid Gland

C Cell

Hyperplasia

Minimal

* Urin Bladder

Note: Section with urinary bladder has mesothelioma within the lumen, presumed to be a "floater" from another tissue.

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 345

TMT: 7

SEX: Male

DAY ON TEST: 467

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Eye	Retina	Dysplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Fatty Change	Focal, Minimal
		Hemangioma	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Hemangioma TGLs = 2 - 15]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Mild
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Skin Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 349

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11]		
* Heart		Cardiomyopathy	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
	Lymph Node	Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 6 - 16]		
* Pancreas		Atrophy	Mild
* Parathyroid Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Moderate
* Skin		Fibroma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 349

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800805

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLs = 2 - 15]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1 - 14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Mesothelioma Malignant	
[Adenoma TGLs = 3 - 11]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 350

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* 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
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone	Tibia	Osteosarcoma	
* Eye	Lens	Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Basophilic Focus TGLs = 3 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Marked
		Inflammation	Minimal
* Skin	Epidermis	Hyperplasia	Squamous, Mild
	[Hyperplasia TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 351

TMT: 7

SEX: Male

DAY ON TEST: 389

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0800807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thyroid Gland | * Trachea | * Urinary Bladder |

OBSERVATIONS

- | | | | |
|--------------------------|------------------------------|----------------------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Marked |
| * Kidney | | Mineralization | Minimal |
| | Renal Tubule | Necrosis | Mild |
| * Liver | Centrilobular | Necrosis | Moderate |
| | [Necrosis TGLs = 2 - 6+7] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Lymph Node, Mesenteric | | Necrosis | Mild |
| * Nose | | Inflammation | Mild |
| * Prostate | | Inflammation | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| | [Thrombosis TGLs = 1 - 14] | Thrombosis | Marked |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Liver Centrilobular Necrosis

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 352

TMT: 7

SEX: Male

DAY ON TEST: 705

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Nose
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	

OBSERVATIONS

* Bone Marrow		Fibrosis	Focal, Minimal
		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 1 - 11+15]		
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Moderate
	[Thrombosis TGLs = 8 - 7]		
* Liver		Bile Duct	Mild
		Hyperplasia	Chronic Active, Minimal
		Inflammation	Mild
* Lung		Necrosis	Chronic Active, Mild
Lymph Node	Mediastinal	Inflammation	Histiocyte, Mild
		Infiltration Cellular	
	Note: Histiocytes in the mediastinal lymph node contain abundant pigment (hemosiderin).		
	[Infiltration Cellular TGLs = 7 - 14]		
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 5,6 - 16+17]		
* Pancreas		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 352

TMT: 7

SEX: Male

DAY ON TEST: 705

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800808

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Moderate
		Mesothelioma Malignant	
	[Hematopoietic Cell Proliferation TGLs = 4 - 5]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 353

TMT: 7

SEX: Male

DAY ON TEST: 664

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone

Note: TGL-3 - dislocated knee = NCL, suggesting gross finding was perimortem.

* Bone Marrow

Hyperplasia Mild

* Epididymis

Mesothelioma Malignant

* Heart

Cardiomyopathy Moderate

* Intestine Large, Colon

Parasite Metazoan

* Kidney

Mineralization Minimal

* Liver

Nephropathy Minimal

Bile Duct

Clear Cell Focus

Hyperplasia Mild

* Lung

Alveolus

Inflammation Chronic Active, Minimal

Infiltration Cellular

Histiocyte, Minimal

Inflammation Chronic Active, Minimal

* Pituitary Gland

Pars Distalis

Hyperplasia Minimal

* Skin

Fibroma

Keratoacanthoma

[Fibroma TGLs = 1 - 14]

[Keratoacanthoma TGLs = 2 - 15]

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 353

TMT: 7

SEX: Male

DAY ON TEST: 664

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800809

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Fibroma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 354

TMT: 7

SEX: Male

DAY ON TEST: 710

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone Marrow	* Esophagus
* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone		Osteopetrosis	Mild
	[Osteopetrosis TGLs = 12 - 23]		
* Brain		Astrocytoma Malignant	
	[Astrocytoma Malignant TGLs = 11 - 9]		
* Epididymis		Mesothelioma Malignant	
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Minimal
	Antr Chamber	Inflammation	Moderate
	Note: Astrocytoma from brain is visible in retrobulbar tissue and probably responsible for buphthalmos causing eye trauma and inflammation.		
	[Inflammation TGLs = 8 - 20]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
Lymph Node	Mediastinal	Infiltration Cellular	Plasma Cell, Mild
	[Infiltration Cellular TGLs = 6 - 18]		
* Lymph Node, Mesenteric		Hemorrhage	Mild
	[Hemorrhage TGLs = 9 - 21]		
* Nose		Foreign Body	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 354

TMT: 7

SEX: Male

DAY ON TEST: 710

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800810

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Inflammation	Mild
		Adenoma	Mixed Cell
		Atrophy	Mild
Note: Mixed cell adenoma is very small; would prefer to diagnose hyperplasia but cannot use the qualifier "mixed" with that diagnosis.			
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 10 - 22]		
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	Multiple
	[Keratoacanthoma TGLs = 1,2,3 - 14+15+16]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
Note: Interstitial cell hyperplasia was also responsible for TGL-4.			
	[Adenoma TGLs = 4 - 11]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Carcinoma	
	[Carcinoma TGLs = 7 - 19]		

PRIMARY CAUSE OF DEATH - Brain Astrocytoma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 355

TMT: 7

SEX: Male

DAY ON TEST: 678

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Esophagus
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
		Osteosarcoma	Metastatic (Bone)
* Bone		Osteosarcoma	
	[Osteosarcoma TGLs = 10 - 20+21]		
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11+16]		
* Eye	Lens	Cataract	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		Osteosarcoma	Metastatic (Bone)
	[Leukemia Mononuclear TGLs = 2 - 6+7]		
	[Osteosarcoma TGLs = 3 - 15]		
* Lung		Osteosarcoma	Metastatic (Bone)
	[Osteosarcoma TGLs = 11 - 3+4]		
Mesentery		Mesothelioma Malignant	
* Pancreas		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Prostate		Mesothelioma Malignant	
* Seminal Vesicle		Mesothelioma Malignant	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 355

TMT: 7

SEX: Male

DAY ON TEST: 678

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800811

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Infarct	Marked
		Leukemia Mononuclear	
	Capsule	Mesothelioma Malignant	
		Osteosarcoma	Metastatic (Bone)
	[Infarct TGLs = 9 - 19]		
	[Leukemia Mononuclear TGLs = 1 - 14]		
	[Osteosarcoma TGLs = 8 - 18]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Testes	Interstit Cell	Adenoma	
		Mesothelioma Malignant	
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
	[Adenoma TGLs = 7 - 17]		

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

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 356

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
	[Pheochromocytoma Benign TGLs = 4 - 8]		
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 1 - 11]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 8 - 8]		
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
* Skin		Fibroma	Multiple

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 356

TMT: 7

SEX: Male

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800812

ORGAN AND ACCOUNTABLE SITE STATUS

Keratoacanthoma

[Fibroma TGLs = 5,6 - 14+15]

[Keratoacanthoma TGLs = 7 - 16]

* Spleen

Hematopoietic Cell Proliferation

Minimal

Pigmentation

Hemosiderin, Minimal

* Testes

Bilateral, Interstit Cell

Adenoma

Mesothelioma Malignant

[Adenoma TGLs = 3 - 11]

[Mesothelioma Malignant TGLs = 2 - 11]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 357

TMT: 7

SEX: Male

DAY ON TEST: 678

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea		

MISSING

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone		Osteopetrosis	Mild
	[Osteopetrosis TGLs = 6 - 17]		
* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 2 - 11]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	Centrilobular	Necrosis	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 14]		
* Nose		Foreign Body	Minimal
		Inflammation	Minimal
Oral Mucosa	Pharyngeal	Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 8 - 18]		
* Pancreas		Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 357

TMT: 7

SEX: Male

DAY ON TEST: 678

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800813

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Minimal Mild
* Seminal Vesicle		Mesothelioma Malignant	
* Skin		Mesothelioma Malignant	
	[Keratoacanthoma TGLs = 5 - 15]	Keratoacanthoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Interstit Cell	Adenoma Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 3 - 11]		
* Thymus		Atrophy	Moderate
* Urinary Bladder		Mesothelioma Malignant	

PRIMARY CAUSE OF DEATH - Mesentery Mesothelioma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 358

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 3 - 11]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Lung		Hyperplasia	Moderate
	[Hyperplasia TGLs = 5 - 3]		
* Pituitary Gland		Hyperplasia	Minimal
* Skin		Fibroma	
	[Fibroma TGLs = 4 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Testes		Adenoma	
	Interstit Cell	Mesothelioma Malignant	
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 359

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	[Hepatodiaphragmatic Nodule	Leukemia Mononuclear	
* Lung	TGLs = 2 - 15]		
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Minimal
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 17]		
* Prostate		Inflammation	Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLs = 1 - 14]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 359

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800815

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus	Interstit Cell	Hyperplasia	Mild
* Thyroid Gland	Follicular Cel	Atrophy	Marked
[Adenoma TGLs = 3 - 16]		Adenoma	

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 360

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
	[Pheochromocytoma Malignant TGLs = 2 - 15]		
* Eye	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Mild
	Atrium, Endocardium	Schwannoma Malignant	
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Moderate
	[Inflammation TGLs = 3 - 13]		
* Skin		Basal Cell Adenoma	
	Note: This adenoma has squamous differentiation.		
	[Basal Cell Adenoma TGLs = 1 - 14]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 361

TMT: 7

SEX: Male

DAY ON TEST: 499

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Nose		Inflammation	Minimal
Note: A foreign body granuloma is present in ventral nasal mucosa.			
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 15]		
* Prostate		Inflammation	Mild
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Testes	Germinal Epith	Degeneration	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 362

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone		Osteopetrosis	Mild
	[Osteopetrosis TGLs = 6 - 20]		
* Bone Marrow		Hyperplasia	Moderate
* Eye	Lens	Cataract	Minimal
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Polyp Adenomatous	
	[Polyp Adenomatous TGLs = 8 - 19]		
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLs = 4 - 16]		
	[Leukemia Mononuclear TGLs = 5 - 17]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7 - 18]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 362

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800818

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Fibroadenoma TGLs = 1 - 14]		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Minimal
* Spleen	Capsule	Fibrosis	Mild
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
[Fibrosis TGLs = 3 - 15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLs = 2 - 11]			
* Thymus		Atrophy	Marked

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 363

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800819

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
* Eye	Iris	Melanoma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
Lymph Node	Pancreatic	Inflammation	Histiocytic, Moderate
[Inflammation TGLs = 4 - 16]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 6 - 18]			
* Prostate	Epithelium	Hyperplasia	Mild
		Inflammation	Minimal
* Skin		Basal Cell Adenoma	
	Dermis	Fibrosis	Mild
	Epidermis	Hyperkeratosis	Mild
[Basal Cell Adenoma TGLs = 1 - 15]			
[Hyperkeratosis TGLs = 2 - 14]			
* Spleen		Pigmentation	Hemosiderin, Minimal
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 363

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800819

ORGAN AND ACCOUNTABLE SITE STATUS

Interstit Cell	Hyperplasia	Marked
Note: Interstitial cell hyperplasia was also responsible for TGL-3. [Adenoma TGLs = 3 - 11]		
* Thymus	Atrophy	Moderate
* Thyroid Gland	Hyperplasia	Mild
Tongue	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLs = 5 - 17]		

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 364

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLs = 4 - 11]		
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Mild
* Heart		Cardiomyopathy	Mild
	Atrium	Thrombosis	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Minimal
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
	[Hyperplasia TGLs = 3 - 16]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate	Epithelium	Hyperplasia	Minimal
		Inflammation	Minimal
* Skin	Epidermis	Hyperplasia	Squamous, Mild
		Inflammation	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 364

TMT: 7

SEX: Male

DAY ON TEST: 726

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0800820

ORGAN AND ACCOUNTABLE SITE STATUS

Keratoacanthoma

Note: Hyperplasia may include a compound follicle.

[Hyperplasia TGLs = 2 - 15]

[Keratoacanthoma TGLs = 1 - 14]

* Spleen

Hematopoietic Cell Proliferation
Pigmentation

Minimal
Hemosiderin, Minimal

* Testes

Bilateral, Interstit Cell

Adenoma
Mesothelioma Malignant

[Adenoma TGLs = 5 - 11]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 365

TMT: 7

SEX: Male

DAY ON TEST: 575

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Minimal
		Tension Lipidosis	Mild
	[Tension Lipidosis TGLs = 3 - 15]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Prostate	Epithelium	Hyperplasia	Minimal
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Adenoma	
		Mesothelioma Malignant	
	[Adenoma TGLs = 2 - 11]		
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Skin Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 366

TMT: 7
DOSE: 1000 mg/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 629
HISTO: 0800822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Thymus

OBSERVATIONS

- | | | | |
|-------------------|--|---------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Mild |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Degeneration | Cystic, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 10 - 6+7] | | |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Bronchial | Leukemia Mononuclear | |
| | Axillary | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 8 - 21] | | |
| | [Leukemia Mononuclear TGLs = 6 - 19] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 366

TMT: 7

SEX: Male

DAY ON TEST: 629

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0800822

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear	TGLs = 5 - 18]		
[Leukemia Mononuclear	TGLs = 4 - 17]		
[Leukemia Mononuclear	TGLs = 3 - 16]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear	TGLs = 7 - 20]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland		Adenoma	
	Pars Distalis		
[Adenoma	TGLs = 11 - 23]		
* Prostate		Inflammation	Moderate
* Seminal Vesicle		Inflammation	Moderate
* Skin		Fibroma	
[Fibroma	TGLs = 1 - 14]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
[Leukemia Mononuclear	TGLs = 2 - 15]		
* Testes		Germinal Epith	Mild
* Thyroid Gland		Follicular Cel	
		C Cell	
[Adenoma	TGLs = 9 - 22]		Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 401

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Natural Death

DAY ON TEST: 432
HISTO: 0800823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|------------------|----------------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Cortex | Cyst | Minimal |
| | | Mineralization | Minimal |
| | [Cyst TGLs = 3 - 5] | | |
| * Liver | | Fatty Change | Diffuse, Mild |
| | | Inflammation | Chronic Active, Minimal |
| Mesentery | Fat | Necrosis | Minimal |
| | [Necrosis TGLs = 2 - 14] | | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | | Leiomyosarcoma | |
| | [Leiomyosarcoma TGLs = 1 - 13] | | |

PRIMARY CAUSE OF DEATH - Uterus Leiomyosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 402

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 608
HISTO: 0800824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Pituitary Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|---------------|---------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Skin | | Fibroma | |
| | [Fibroma TGLs = 1 - 13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Skin Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 403

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 680
HISTO: 0800825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 6+7]		
* Lung		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Ovary		Atrophy	Marked
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 4 - 14]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
	[Leukemia Mononuclear TGLs = 1 - 13]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 403

TMT: 2

SEX: Female

DAY ON TEST: 680

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800825

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 404

TMT: 2
 DOSE: 0 mg/L

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* 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

OBSERVATIONS

* Adrenal Cortex		Hematopoietic Cell Proliferation	Mild
* Bone Marrow		Hyperplasia	Moderate
* Eye	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 8]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 14]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 404

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800826

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder	C Cell	Hyperplasia	Minimal
* Uterus		Leukemia Mononuclear	
		Polyp Stromal	

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 405

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 1 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	Minimal
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 409

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * 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 | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|---------------|----------------------------------|--|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | | [Fibroadenoma TGLs = 1,2,3 - 13+14+16] |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | | [Adenoma TGLs = 4 - 15] |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 410

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Uterus

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 15+16]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 3 - 18]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 17]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 416

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 635
HISTO: 0800838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Ovary		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 417

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * 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 | * Pituitary Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------|------------------------------------|----------------------------------|-------------------------|
| * Heart | | Schwannoma Malignant | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | [Basophilic Focus TGLs = 2 - 14] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Pancreas | | Atrophy | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | [Hyperplasia TGLs = 3 - 15] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 418

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * 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 |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLs = 4 - 6+7+16] | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Minimal |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 6 - 18] | | |
| * Skin | | Lipoma | |
| | [Lipoma TGLs = 2 - 14] | | |
| * Spleen | | Pigmentation | Hemosiderin, Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 418

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800840

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 5 - 17]

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 419

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * 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 |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|---|--|
| * Adrenal Cortex | | Degeneration
Hypertrophy | Cystic, Moderate
Minimal |
| | [Degeneration TGLs = 2 - 13] | | |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis
Basophilic Focus
Clear Cell Focus
Inflammation | Minimal

Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 14] | | |
| * Ovary | | Atrophy
Cyst | Moderate
Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Hematopoietic Cell Proliferation
Pigmentation | Minimal
Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 420

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Natural Death

DAY ON TEST: 689
HISTO: 0800842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* 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	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Eye	Lens	Cataract	Moderate
	Retina	Degeneration	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Ovary		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 15]		
* Spleen	Lymph Follic	Atrophy	Mild
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Uterus	Cervix	Inflammation	Moderate
	Cervix, Epithelium	Metaplasia	Squamous, Mild
	[Inflammation TGLs = 2 - 14]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 421

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* 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
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Moderate
	[Cataract TGLs = 1 - 13]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 2 - 14]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 3 - 15]		
* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 16]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 422

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 4 - 23]		
* Lymph Node, Mesenteric		Atrophy	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+22]		
* Spleen	Lymph Follic	Atrophy	Mild
		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked
* Uterus	Cervix	Inflammation	Moderate
	Cervix	Metaplasia	Squamous, Mild
	[Inflammation TGLs = 3 - 24]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 423

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Natural Death

DAY ON TEST: 694
HISTO: 0800845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * 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 |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|----------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 2 - 14] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 3 - 15] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Marked |
| * Uterus | Cervix | Sarcoma Stromal | |

Note: Tumor in the cervix may actually be a fibrous histiocytoma, but this is not a diagnostic choice in uterus in TDMSE.

[Sarcoma Stromal TGLs = 1 - 13]

PRIMARY CAUSE OF DEATH - Uterus Cervix Sarcoma Stromal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 424

TMT: 2
 DOSE: 0 mg/L

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 714
 HISTO: 0800846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Moderate
	[Nephropathy TGLs = 3 - 5]		
* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hemangiosarcoma	
		Inflammation	Chronic Active, Minimal
		Necrosis	Multifocal, Minimal
	[Hemangiosarcoma TGLs = 2 - 6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 4 - 14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 13]		
* Skin		Lipoma	
	[Lipoma TGLs = 1 - 15]		
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Hemosiderin, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Marked
		Inflammation	Moderate
		Squamous Cell Papilloma	Multiple

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 424

TMT: 2

SEX: Female

DAY ON TEST: 714

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800846

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Ulcer	Marked
* Thyroid Gland		Atrophy	Marked
	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Stomach, Forestomach Ulcer

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 425

TMT: 2
 DOSE: 0 mg/L

SEX: Female
 DISP: Natural Death

DAY ON TEST: 709
 HISTO: 0800847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant	TGLs = 2 - 14]		
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
[Tension Lipidosis	TGLs = 1 - 13]	Tension Lipidosis	Mild
* Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Ovary		Cyst	Minimal
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma	TGLs = 3 - 15]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 426

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 1 - 13]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Basophilic Focus TGLs = 2 - 6+7+14]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolar Epith	Hypertrophy	Minimal
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 3 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 426

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800848

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 427

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 428

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0800850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Fatty Change	Focal, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	Note: Additional fibroadenoma is within routine mammary gland section taken from distant to gross lesion.		
	[Fibroadenoma TGLs = 1 - 14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 8 - 19]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
	[Adenoma TGLs = 6 - 17]		
* Uterus		Decidual Reaction	Marked
		Polyp Stromal	Multiple

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 428

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800850

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Marked decidual reaction within one stromal polyp (B15).

[Polyp Stromal TGLs = 3,9 - 15+20]

Vagina

Epithelium

Hyperplasia

Mild

[Hyperplasia TGLs = 4 - 16]

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 429

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0800851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland	Bilateral	Adenoma	
	[Adenoma TGLs = 1 - 12+13]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	[Leukemia Mononuclear TGLs = 3 - 6+7]	Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	Note: Fibroadenoma was in section of clitoral gland mass.		
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 430

TMT: 2
 DOSE: 0 mg/L

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 645
 HISTO: 0800852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Harderian Gland
* 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
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Brain		Glioma Malignant	
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Marked
	Ciliary Body	Fibrosis	Mild
	[Cataract TGLs = 2 - 10]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Thymoma Malignant	
	[Thymoma Malignant TGLs = 1 - 13]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Thymus Thymoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 431

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Natural Death

DAY ON TEST: 673
HISTO: 0800853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|----------------------|--------------------------|--------------------------|
| Blood Vessel | * Bone | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------------------|--|----------------------------|-------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Intestine Small, Jejunum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | | Hepatodiaphragmatic Nodule | |
| | | Leukemia Mononuclear | |
| | [Fatty Change TGLs = 4 - 6+7] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 3 - 15] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| | Lymph Node | Leukemia Mononuclear | |
| | Pancreatic | | |
| | [Leukemia Mononuclear TGLs = 5 - 16] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Mammary Gland | | Leukemia Mononuclear | |
| * Nose | | Inflammation | Mild |
| * Ovary | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 431

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Natural Death

DAY ON TEST: 673
HISTO: 0800853

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear
* Pituitary Gland	Pars Distalis	Adenoma
	[Adenoma TGLs = 2 - 14]	
* Spleen		Leukemia Mononuclear
	[Leukemia Mononuclear TGLs = 1 - 13]	
* Stomach, Forestomach		Leukemia Mononuclear
* Stomach, Glandular		Leukemia Mononuclear
* Thymus		Leukemia Mononuclear
* Uterus	Cervix	Leukemia Mononuclear
	[Leukemia Mononuclear TGLs = 6 - 17]	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 432

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Basophilic Focus TGLs = 1 - 21]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	Note: Fibroadenoma was in routine mammary section (B12).		
* Ovary		Cyst	Moderate
	[Cyst TGLs = 2 - 22]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 8]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Uterus			

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 432

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800854

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fold in uterus appears like a polyp.

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 433

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Inflammation	Marked
	[Inflammation TGLs = 1 - 13]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 2 - 14]		
* Ovary		Infiltration Cellular	Histiocyte, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 434

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 641
HISTO: 0800856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Mediastinum	Inflammation	Mild
* Nose		Foreign Body	
		Inflammation	Mild
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Adenoma	
	[Adenoma TGLs = 3 - 15]		
* Uterus		Schwannoma Malignant	
	[Schwannoma Malignant TGLs = 1,2 - 13+14]		

PRIMARY CAUSE OF DEATH - Uterus Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 435

TMT: 2
 DOSE: 0 mg/L

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 635
 HISTO: 0800857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Cyst	Marked
		Inflammation	Marked
	[Cyst TGLs = 1 - 14]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Mild
	Pelvis	Inflammation	Minimal
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
	[Fatty Change TGLs = 4 - 16]		
	[Hepatodiaphragmatic Nodule TGLs = 3 - 15]		
	[Mixed Cell Focus TGLs = 7 - 18]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 435

TMT: 2

SEX: Female

DAY ON TEST: 635

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800857

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Adenoma	
		Fibroadenoma	
	[Fibroadenoma TGLs = 2 - 13]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 17]		
* Skin		Cyst Epithelial Inclusion	
	Note: Cyst involved gingiva. Secondary inflammation lead to erosion and deformation of the mandible.		
	[Cyst Epithelial Inclusion TGLs = 5 - 19]		
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 441

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone		Osteopetrosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Ovary		Atrophy	Moderate
		Cyst	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 16]		
* Skin	Epidermis	Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild
	[Ulcer TGLs = 1 - 15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 441

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800863

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 442

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolus	Leukemia Mononuclear	
		Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Leukemia Mononuclear	
	[Fibroadenoma TGLs = 1,2 - 14+15]	Fibroadenoma	Multiple
* Ovary		Atrophy	Mild
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 3 - 13]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 443

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0800865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Necrosis	Moderate
* Clitoral Gland		Adenoma	
		Carcinoma	
	[Carcinoma TGLs = 3 - 12]		
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 1 - 6+7+13]		
	[Hepatodiaphragmatic Nodule TGLs = 2 - 14]		
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 15]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 443

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800865

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

Pigmentation

Hemosiderin, Mild

* Thymus

Atrophy

Moderate

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 444

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 2 - 14]			
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLs = 6 - 18]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Mild
	Bile Duct	Hyperplasia	Minimal
	Oval Cell	Hyperplasia	Minimal
[Leukemia Mononuclear TGLs = 4 - 6+7+16]		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLs = 3 - 15]			
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 5 - 17]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLs = 1 - 13]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 444

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800866

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 445

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0800867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Oval Cell	Hyperplasia	Minimal
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
	[Basophilic Focus TGLs = 2 - 6+7+15]		
* Lung		Inflammation	Chronic Active, Minimal
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 446

TMT: 2
 DOSE: 0 mg/L

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic Active, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 20]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 447

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Atrophy	Moderate
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 2 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 448

TMT: 2

SEX: Female

DAY ON TEST: 551

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Skin
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Fatty Change	Diffuse, Moderate
	Bile Duct	Hyperplasia	Minimal
	[Leukemia Mononuclear TGLs = 7 - 6+7]	Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Infiltration Cellular	Histiocyte, Mild
	Pancreatic	Infiltration Cellular	Histiocyte, Mild
	Inguinal	Infiltration Cellular	Plasma Cell, Mild
	[Infiltration Cellular TGLs = 6 - 18]		
	[Infiltration Cellular TGLs = 5 - 17]		
	[Infiltration Cellular TGLs = 4 - 16]		
* Lymph Node, Mandibular		Infiltration Cellular	Plasma Cell, Mild
	[Infiltration Cellular TGLs = 1 - 14]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 9 - 20]		
* Ovary		Atrophy	Marked
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 448

TMT: 2

SEX: Female

DAY ON TEST: 551

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800870

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 8 - 19]

* Spleen

Capsule

Leukemia Mononuclear

Mineralization

Mild

[Leukemia Mononuclear TGLs = 2 - 13]

[Mineralization TGLs = 3 - 15]

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

Inflammation

Mild

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 449

TMT: 2

SEX: Female

DAY ON TEST: 635

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Mild
* Eye	Lens	Cataract	Moderate
	Retina	Degeneration	Marked
	Iris	Inflammation	Mild
	[Cataract TGLs = 2 - 10]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 3 - 14]		
* Lung		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 449

TMT: 2

SEX: Female

DAY ON TEST: 635

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800871

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus	C Cell Endometrium	Hyperplasia Hyperplasia	Minimal Cystic, Minimal
[Hyperplasia	TGLs = 4 - 15]		

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 450

TMT: 2
 DOSE: 0 mg/L

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Harderian Gland | * 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 |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Clitoral Gland | | Adenoma | |
| * Eye | Retina | Gliosis | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Mineralization | Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | [Basophilic Focus TGLs = 3 - 6+7] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2 - 22] | | |
| * Ovary | | Cyst | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Skin | | Fibroma | |
| | [Fibroma TGLs = 1 - 21] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Hyperplasia | Marked |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 451

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* 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	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Clitoral Gland		Inflammation	Marked
	[Inflammation TGLs = 1 - 15]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 2 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 452

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 2 - 14]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 453

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * 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 | | | |

OBSERVATIONS

- | | | | |
|-------------------|---|----------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| | Myocardium | Schwannoma Malignant | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Minimal |
| | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| | [Basophilic Focus TGLs = 5 - 6+7] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 6 - 6] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 13+14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 3 - 15] | | |
| * Spleen | | Leukemia Mononuclear | |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 453

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800875

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

Polyp Stromal

[Polyp Stromal TGLs = 4 - 11]

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 454

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Natural Death

DAY ON TEST: 330
HISTO: 0800876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * 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 |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|----------|--------------|----------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Inflammation | Moderate |
| | Papilla | Necrosis | Minimal |
| * Liver | | Inflammation | Chronic Active, Minimal |
| * Spleen | Lymph Follic | Atrophy | Moderate |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Kidney Inflammation

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 455

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0800877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Esophagus	* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone		Osteopetrosis	Mild
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 5 - 17]		
* Eye	Lens	Cataract	Marked
	Retina	Degeneration	Moderate
	Postr Chamber	Inflammation	Mild
	[Inflammation TGLs = 1 - 13]		
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	[Basophilic Focus TGLs = 7 - 19]	Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 4 - 16]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 18]		
* Skin	Epidermis	Hyperplasia	Squamous, Mild
		Inflammation	Mild
		Ulcer	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 455

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800877

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLs = 2,3 - 14+15]

* Spleen

Hematopoietic Cell Proliferation

Mild

Pigmentation

Hemosiderin, Minimal

* Thymus

Atrophy

Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 456

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 690
HISTO: 0800878

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLs = 1 - 14]		
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Fatty Change	Diffuse, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6 - 3+4]		
Lymph Node	Lumbar	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 8 - 18]		
	[Leukemia Mononuclear TGLs = 5 - 16]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Ovary		Cyst	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 456

TMT: 2

SEX: Female

DAY ON TEST: 690

DOSE: 0 mg/L

DISP: Moribund Sacrifice

HISTO: 0800878

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Leukemia Mononuclear	
		Adenoma	
	[Adenoma TGLs = 7 - 17]	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Leukemia Mononuclear	
* Uterus		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 15]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 457

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800879

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 2 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
* Nose		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 458

TMT: 2

SEX: Female

DAY ON TEST: 728

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800880

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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
* Stomach, Forestomach	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Skin		Inflammation	Mild
	Note: Skin inflammation (granuloma) is in the maxillary region.		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
* Stomach, Glandular		Mineralization	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 459

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0800881

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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
* Ovary	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 460

TMT: 2
DOSE: 0 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0800882

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 464

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800886

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Ovary		Cyst	Minimal
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 465

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800887

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
		Necrosis	Multifocal, Minimal
	[Leukemia Mononuclear TGLs = 1 - 6+7+21]		
* Lymph Node, Mesenteric		Atrophy	Moderate
* Pancreas	Acinus	Adenoma	
	Acinus	Hyperplasia	Minimal
	[Adenoma TGLs = 3 - 23]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 22]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 466

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800888

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Cecum	Lymphoid Tiss	Leukemia Mononuclear	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 15]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Nose		Inflammation	Minimal
Note: Nasal inflammation is due to a ruptured and inflamed nasolacrimal duct.			
* Ovary		Atrophy	Moderate
		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 13]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 466

TMT: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 mg/L

DISP: Terminal Sacrifice

HISTO: 0800888

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Cervix, Epithelium	Hyperplasia	Mild
	Endometrium	Hyperplasia	Cystic, Minimal

[Hyperplasia TGLs = 3 - 14]

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 501

TMT: 4

SEX: Female

DAY ON TEST: 712

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800889

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------|---|----------------------|----------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | [Leukemia Mononuclear TGLs = 4 - 6+7] | Leukemia Mononuclear | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,3 - 14+15] | Hyperplasia | Mild |
| | [Hyperplasia TGLs = 5 - 16] | | |
| * Ovary | | Atrophy | Minimal |
| | | Cyst | Mild |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 6 - 17] | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | | Pigmentation | Hemosiderin, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 501

TMT: 4

SEX: Female

DAY ON TEST: 712

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800889

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 1 - 13]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Adenoma

Cyst

Marked

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 502

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800890

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 4 - 16]		
* Heart		Cardiomyopathy	Mild
* Kidney	Renal Tubule	Hyperplasia	Atypical, Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,5 - 13+14+15+17]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 503

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800891

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Uterus		

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma	
		Fibroadenoma	
	[Adenoma TGLs = 2 - 14]		
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 504

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800892

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone		Osteopetrosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 5 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma	
		Fibroadenoma	Multiple
	[Adenoma TGLs = 1 - 13]		
	[Fibroadenoma TGLs = 2,3,4,6 - 14+15+16+17]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 505

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800893

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
		Hyperplasia	Minimal
	[Adenoma TGLs = 1 - 13]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
		Galactocele	Marked
	[Fibroadenoma TGLs = 2,3,4 - 14+15+16]		
	[Galactocele TGLs = 5 - 17]		
* Ovary		Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 506

TMT: 4

SEX: Female

DAY ON TEST: 568

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800894

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland		Cyst	Moderate
	[Cyst TGLs = 2 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 507

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Leukemia Mononuclear	
* Mammary Gland		Infiltration Cellular	Histiocyte, Minimal
	[Fibroadenoma TGLs = 1,2 - 13+14]	Fibroadenoma	Multiple
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 3 - 15]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 508

TMT: 4

SEX: Female

DAY ON TEST: 704

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
	Atrium	Thrombosis	Moderate
	[Thrombosis TGLs = 3 - 7]		
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 6+7+15]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[Fibroadenoma TGLs = 1 - 14]		
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLs = 2 - 13]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 508

TMT: 4

SEX: Female

DAY ON TEST: 704

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800896

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 509

TMT: 4

SEX: Female

DAY ON TEST: 645

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Periportal	Fatty Change	Diffuse, Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Ovary		Cyst	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate
	[Adenoma TGLs = 3 - 15]		

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 510

TMT: 4
DOSE: 250 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 712
HISTO: 0800898

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|---------------------|
| * Adrenal Cortex | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Hyperplasia TGLs = 9 - 17] | | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Hepatodiaphragmatic Nodule | |
| | | Leukemia Mononuclear | |
| | [Basophilic Focus TGLs = 4 - 6+7+20] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 2,3 - 13] | | |
| | [Leukemia Mononuclear TGLs = 5 - 6+7+20] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 6,7,8,10 - 14+15+16+18] | | |
| * Ovary | | Atrophy | Moderate |
| | | Cyst | Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 11 - 19] | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 510

TMT: 4

SEX: Female

DAY ON TEST: 712

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800898

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Moderate
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 516

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
		Inflammation	Mild
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 4 - 15]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
[Basophilic Focus TGLs = 6 - 6+7+22]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Lumbar	Ectasia	Moderate
[Ectasia TGLs = 10 - 14]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1,2,3,8 - 18+19+20+21]			
* Nose		Foreign Body	
		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLs = 7 - 13]			
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLs = 5 - 16]			
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 516

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800904

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

* Uterus

[Hypertrophy TGLs = 9 - 17]

Cervix

Pigmentation

Atrophy

Hypertrophy

Hemosiderin, Minimal

Moderate

Mild

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 517

TMT: 4
 DOSE: 250 mg/L

SEX: Female
 DISP: Natural Death

DAY ON TEST: 607
 HISTO: 0800905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Hyperplasia	Moderate
		Inflammation	Minimal
* Brain		Necrosis	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Inflammation	Mild
* Liver		Histiocytic Sarcoma	
Note: Large areas of necrosis within tumor tissue were not separately diagnosed (because they are secondary to/part of tumor).			
[Histiocytic Sarcoma TGLs = 1,4,5 - 6+7+15]			
* Lung		Histiocytic Sarcoma	
* Nose		Inflammation	Minimal
* Ovary		Histiocytic Sarcoma	
* Pancreas	Acinus	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLs = 2 - 13]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked
* Uterus	Cervix	Inflammation	Mild
	Cervix	Metaplasia	Squamous, Minimal
[Inflammation TGLs = 3 - 14]			

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 518

TMT: 4

SEX: Female

DAY ON TEST: 558

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------|--|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic Active, Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 3 - 15] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | [Hyperplasia TGLs = 2 - 14] | | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 519

TMT: 4
 DOSE: 250 mg/L

SEX: Female
 DISP: Terminal Sacrifice

DAY ON TEST: 727
 HISTO: 0800907

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Leukemia Mononuclear	
* Kidney	Pelvis	Calculus Micro Observation Only	
		Mineralization	Minimal
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2,3 - 14+15]		
* Ovary		Atrophy	Minimal
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 520

TMT: 4
 DOSE: 250 mg/L

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 645
 HISTO: 0800908

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Harderian Gland | * 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 Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Eye | Retina | Degeneration | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Minimal |
| | | Fatty Change | Diffuse, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Fatty Change TGLs = 4 - 15] | | |
| | [Leukemia Mononuclear TGLs = 3 - 6+7+18] | | |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 5 - 16] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 2 - 14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 520

TMT: 4

SEX: Female

DAY ON TEST: 645

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800908

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLs = 6 - 17]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 1 - 13]

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 526

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800914

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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
* Pancreas	* Parathyroid Gland	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Hyperplasia	Moderate
	[Hyperplasia TGLs = 4 - 16]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6 - 18]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 5 - 17]		
* Nose		Inflammation	Mild
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Salivary Glands		Degeneration	Mild
		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Hyperplasia	Lymphoid, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 526

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800914

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear
Pigmentation

Hemosiderin, Minimal

[Hyperplasia TGLs = 7 - 19]

Atrophy

Moderate

* Thymus

Hyperplasia

Cystic, Minimal

* Uterus

Endometrium

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 527

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800915

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,5 - 13+14+15+16]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 17]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 528

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800916

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Calculus Micro Observation Only	
		Nephropathy	Minimal
* Liver	Bile Duct	Basophilic Focus	
		Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLs = 6 - 6+7+19]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17]		
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7 - 18]		
* Spleen		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 529

TMT: 4
DOSE: 250 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 601
HISTO: 0800917

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Parathyroid Gland

OBSERVATIONS

- | | | | |
|-----------------|--------------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Periportal | Fatty Change | Diffuse, Mild |
| | | Hematopoietic Cell Proliferation | Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Minimal |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 530

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800918

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3 - 13+14+15] | | |
| * Ovary | | Cyst | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4 - 16] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 534

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800922

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis	Calculus Micro Observation Only	
* Liver		Basophilic Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma	TGLs = 1,2,3 - 13+14+15]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 535

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 3 - 6+7+15]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Atrophy	Marked
	[Atrophy TGLs = 4 - 16]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 536

TMT: 4

SEX: Female

DAY ON TEST: 579

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 5 - 17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 4 - 16]		

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 537

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * 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 |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------|-------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17] | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 538

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Infiltration Cellular	Lymphoid, Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Mild
	[Hepatodiaphragmatic Nodule TGLs = 4 - 16]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,5 - 13+14+15+17]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 539

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* 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	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Eye	Cornea	Inflammation	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 3 - 6+7]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLs = 5 - 4]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,4 - 13+14+15]		
* Pituitary Gland		Inflammation	Minimal
	[Inflammation TGLs = 6 - 16]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 540

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
Note: There are also an abundance of siderophages within the bone marrow.			
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Ovary		Atrophy	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 4 - 16]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 541

TMT: 4

SEX: Female

DAY ON TEST: 588

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Zona Fasciata	Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Ovary		Atrophy	Minimal
* Thymus		Atrophy	Moderate
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 542

TMT: 4

SEX: Female

DAY ON TEST: 645

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* 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	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
		Necrosis	Multifocal, Mild
	[Leukemia Mononuclear TGLs = 5 - 6+7+18]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4,6 - 13+14+15+16+17]		
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 542

TMT: 4

SEX: Female

DAY ON TEST: 645

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800930

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Marked

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 543

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Harderian Gland
* 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	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Clitoral Gland		Cyst	Mild
[Cyst TGLs = 4 - 12]			
* Eye	Retina	Gliosis	Mild
* Heart		Cardiomyopathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
[Hepatodiaphragmatic Nodule TGLs = 5 - 16]			
* Lung		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
Note: Second fibroadenoma was in the routine section (B12).			
[Fibroadenoma TGLs = 1 - 13]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLs = 3 - 15]			
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Mild
		Polyp Stromal	
[Hyperplasia TGLs = 2 - 14]			

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 544

TMT: 4
DOSE: 250 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 727
HISTO: 0800932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 545

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Moderate
	[Cataract TGLs = 2 - 14]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 3 - 6+7]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	Lymph Node	Hyperplasia	Lymphoid, Mild
	[Hyperplasia TGLs = 4 - 15]		
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[Fibroadenoma TGLs = 1 - 13]		
	Mesentery	Necrosis	Mild
	[Necrosis TGLs = 6 - 17]		
* Ovary		Cyst	Mild
* Pancreas		Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 545

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800933

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Hyperplasia TGLs = 5 - 16]	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation Leukemia Mononuclear Pigmentation	Mild Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Minimal Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 546

TMT: 4

SEX: Female

DAY ON TEST: 588

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Minimal
		Mineralization	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 4,5 - 16+17]		
	[Hepatodiaphragmatic Nodule TGLs = 3 - 15]		
* Lung		Inflammation	Chronic Active, Moderate
	Note: The chronic active lung inflammation is consistent with infection by "Rat Respiratory Virus", but is not sufficient to obscure most other lesions.		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 7 - 19]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 546

TMT: 4

SEX: Female

DAY ON TEST: 588

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800934

ORGAN AND ACCOUNTABLE SITE STATUS

Tongue

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLs = 6 - 18]

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 547

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Moderate
		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
		Mixed Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Ovary		Cyst	Minimal
* Pancreas	Acinus	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 548

TMT: 4
DOSE: 250 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 693
HISTO: 0800936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| Blood Vessel | * Bone | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---|---------------|-----------------------|---------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Small, Jejunum | | Sarcoma | |
| [Sarcoma TGLs = 10 - 21] | | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLs = 3 - 6+7+22] | | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Leukemia Mononuclear | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLs = 1,4,5,6 - 14+15+16+17] | | | |
| Mesentery | Fat | Necrosis | Minimal |
| [Necrosis TGLs = 8 - 19] | | | |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 9 - 20] | | | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 548

TMT: 4

SEX: Female

DAY ON TEST: 693

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800936

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 7 - 18]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 549

TMT: 4
DOSE: 250 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 623
HISTO: 0800937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| | [Pheochromocytoma Benign TGLs = 4 - 8] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3 - 13+14+15] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 5 - 16] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 550

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Bone		Osteopetrosis	Minimal
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Fatty Change	Diffuse, Minimal
	Bile Duct	Hyperplasia	Mild
	[Hyperplasia TGLs = 5 - 16]		
	[Leukemia Mononuclear TGLs = 4 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Nose		Inflammation	Minimal
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 551

TMT: 4

SEX: Female

DAY ON TEST: 631

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Bone	Tibia	Fracture	
Note: Only on one slide is healed fracture readily evident, however based upon gross findings it is likely both tibias had been fractured and healed.			
[Fracture TGLs = 3 - 14+15]			
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
	Bile Duct	Hyperplasia	Minimal
[Basophilic Focus TGLs = 2 - 6+7+16]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLs = 1 - 13]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 552

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mandibular | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| | | Schwannoma Malignant | |
| * Intestine Large, Colon | | Parasite Metazoan | |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule | | |
| | TGLs = 6 - 18] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma | | |
| | TGLs = 1,2,3,4,5 - 13+14+15+16+17] | | |
| * Nose | | Inflammation | Minimal |
| * Ovary | | Cyst | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Leukemia Mononuclear | |
| | | Pigmentation | Hemosiderin, Minimal |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 552

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800940

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 553

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLs = 5 - 17]		
* Ovary		Cyst	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 553

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800941

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Adenoma

Moderate

Cervix

Inflammation

[Adenoma TGLs = 4 - 16]

[Inflammation TGLs = 3 - 15]

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 554

TMT: 4

SEX: Female

DAY ON TEST: 683

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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

- | | | | |
|-------------------|--|----------------------------------|----------------------|
| * Bone | | Osteopetrosis | Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 3 - 15] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 13+14] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 4 - 16] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 555

TMT: 4

SEX: Female

DAY ON TEST: 727

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* 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 Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 5,6 - 6+7+17]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]	Fibroadenoma	Multiple
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 16]		
* Thymus		Atrophy	Moderate
		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 556

TMT: 4

SEX: Female

DAY ON TEST: 704

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 1 - 13]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
	[Basophilic Focus TGLs = 4 - 6+7+17]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2,3 - 14+15]		
* Ovary		Cyst	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 16]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 557

TMT: 4

SEX: Female

DAY ON TEST: 728

DOSE: 250 mg/L

DISP: Terminal Sacrifice

HISTO: 0800945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLs = 3 - 15]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Mild
	[Hyperplasia TGLs = 4 - 16]		
* Uterus	Cervix	Inflammation	Mild
	[Inflammation TGLs = 2 - 14]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 558

TMT: 4

SEX: Female

DAY ON TEST: 551

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
	Centrilobular	Fatty Change	Diffuse, Mild
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Marked
		Ulcer	Mild
	[Inflammation TGLs = 2 - 14]		
* Thymus		Atrophy	Moderate
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 559

TMT: 4

SEX: Female

DAY ON TEST: 558

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	Lacrimal Gland	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 3 - 15]			
Lacrimal GI			
Note: Examined in B16 to find TGL-4 (NCL).			
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	
[Carcinoma TGLs = 1 - 13]			
[Fibroadenoma TGLs = 2 - 14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Adenoma	
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 560

TMT: 4

SEX: Female

DAY ON TEST: 652

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------|-------------------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 13+14] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 561

TMT: 4

SEX: Female

DAY ON TEST: 709

DOSE: 250 mg/L

DISP: Natural Death

HISTO: 0800949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | Lacrimal Gland | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------|---|----------------------------------|------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLs = 5 - 15] | | |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Brain | | Hemorrhage | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| | [Basophilic Focus TGLs = 3 - 6+7+16] | | |
| * Lung | | Pheochromocytoma Malignant | Metastatic (Adrenal Medulla) |
| | [Pheochromocytoma Malignant TGLs = 4 - 3+4] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 2 - 14] | | |
| * Spleen | Lymph Follic | Atrophy | Mild |
| | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Mild |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 562

TMT: 4

SEX: Female

DAY ON TEST: 712

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* 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
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	[Eosinophilic Focus TGLs = 7 - 19]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17]		
* Ovary		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 563

TMT: 4
DOSE: 250 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 594
HISTO: 0800951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 4 - 12]		
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung		Leukemia Mononuclear	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 14]		
* Thymus		Atrophy	Moderate
Tongue		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 3 - 15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 563

TMT: 4

SEX: Female

DAY ON TEST: 594

DOSE: 250 mg/L

DISP: Moribund Sacrifice

HISTO: 0800951

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 604

TMT: 6

SEX: Female

DAY ON TEST: 673

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
Note: Within the area of adrenal medullary hyperplasia there also appears to be slight proliferation of nerve fibers.			
* Bone		Osteopetrosis	Mild
* Bone Marrow		Hyperplasia	Minimal
* Heart		Cardiomyopathy	Minimal
* Int Lg Colon			
Note: Ectopic mammary tissue (?) is present within mesentery of the colon.			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 4 - 16]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Atrophy	Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Nose		Inflammation	Minimal
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 -17]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 604

TMT: 6

SEX: Female

DAY ON TEST: 673

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800958

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 605

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 656
HISTO: 0800959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Uterus		

MISSING

* Parathyroid Gland	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Eye	Retina	Degeneration	Minimal
* Heart		Leukemia Mononuclear	
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 17]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	Renal	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 7 - 19]		
	[Leukemia Mononuclear TGLs = 6 - 18]		
	[Leukemia Mononuclear TGLs = 4 - 14]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2,3 - 15+16]		
* Nose			

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 605

TMT: 6

SEX: Female

DAY ON TEST: 656

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800959

ORGAN AND ACCOUNTABLE SITE STATUS

Note: MCL present within dental pulp in nasal sections.

* Ovary		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 13]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 606

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 628
HISTO: 0800960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mandibular | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | | |
|--------------------------|---|------------------|-------------------------|
| * Bone | | Osteopetrosis | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | [Basophilic Focus TGLs = 6 - 7] | | |
| * Lymph Node, Mesenteric | | Ectasia | Mild |
| | [Ectasia TGLs = 7 - 18] | | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4 - 13+14+15+16] | | |
| * Nose | Respirat Epith | Hyperplasia | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Pigmentation | Hemosiderin, Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 607

TMT: 6

SEX: Female

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 1 - 13]		
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2,3,4,5 - 14+15+16+17]		
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 608

TMT: 6
 DOSE: 500 mg/L

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 494
 HISTO: 0800962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule		
* Lung	TGLs = 2,3 - 14+15]		
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 609

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 656
HISTO: 0800963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------|---|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Cortex | Cyst | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic Active, Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 4 - 16] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,5 - 13+14+15+17] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 610

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 594
HISTO: 0800964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-----------------|-------------------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Marked |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,3 - 14+15] | | |
| * Ovary | | Cyst | Minimal |
| * Skin | | Fibroma | |
| | [Fibroma TGLs = 1 - 13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Skin Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 616

TMT: 6

SEX: Female

DAY ON TEST: 623

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * 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 | | | |

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------|----------------------------------|-------------------------|
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLs = 5 - 12] | | | |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Mixed Cell Focus | |
| [Mixed Cell Focus TGLs = 6 - 17] | | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Marked |
| [Fibroadenoma TGLs = 1,2 - 13+14] | | | |
| Mesentery | Fat | Necrosis | Minimal |
| [Necrosis TGLs = 3 - 15] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLs = 4 - 16] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 616

TMT: 6

SEX: Female

DAY ON TEST: 623

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800970

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 617

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Natural Death

DAY ON TEST: 429
HISTO: 0800971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------|-----------------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thyroid Gland | | Atrophy | Marked |
| | [Atrophy TGLs = 2 - 14] | | |
| * Uterus | Cervix | Hemangiosarcoma | |
| | [Hemangiosarcoma TGLs = 1 - 13] | | |

PRIMARY CAUSE OF DEATH - Uterus Cervix Hemangiosarcoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 618

TMT: 6

SEX: Female

DAY ON TEST: 334

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	Spinal Cord	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mandibular		Atrophy	Moderate
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
Spinal Cord			
Note: Spinal cord examined because of clinical signs of paralysis.			
* Spleen	Lymph Follic	Atrophy	Mild
		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 619

TMT: 6

SEX: Female

DAY ON TEST: 631

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Minimal
	[Hepatocellular Adenoma TGLs = 3 - 15]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Ovary		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 620

TMT: 6

SEX: Female

DAY ON TEST: 645

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatocellular Adenoma	
		Inflammation	Chronic Active, Minimal
	[Hepatocellular Adenoma TGLs = 6 - 18]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4 - 13+14+15+16]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 5 - 17]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 626

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 728
HISTO: 0800980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * 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 |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|------------------|---|----------------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 1 - 12] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,3,4,5 - 13+14+15+16] | | |
| * Ovary | | Atrophy | Marked |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 627

TMT: 6

SEX: Female

DAY ON TEST: 698

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Kidney	Pelvis	Calculus Micro Observation Only	
		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 6+7]		
* Lung		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 3,4 - 15+16]		
* Ovary		Atrophy	Marked
	[Granulosa Cell Tumor Malignant TGLs = 2 - 14]	Granulosa Cell Tumor Malignant	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 13]		
* Uterus	Endometrium	Hyperplasia	Adenomatous, Mild

PRIMARY CAUSE OF DEATH - Ovary Granulosa Cell Tumor Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 628

TMT: 6
 DOSE: 500 mg/L

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 588
 HISTO: 0800982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|-------------------|--|-----------------------|-------------------------|
| * Brain | | Astrocytoma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Adenoma | |
| | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Nose | | | |
| | Note: Astrocytoma infiltrating along olfactory nerves. | | |
| * Ovary | | Atrophy | Moderate |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Pigmentation | Hemosiderin, Mild |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 2 - 14] | | |

PRIMARY CAUSE OF DEATH - Brain Astrocytoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 629

TMT: 6

SEX: Female

DAY ON TEST: 656

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis	Calculus Micro Observation Only	
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 5 - 6+7]		
* Lung		Carcinoma	Metastatic (Mammary Gland)
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
	[Carcinoma TGLs = 4 - 16]		
	[Fibroadenoma TGLs = 2,3 - 14+15]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 629

TMT: 6

SEX: Female

DAY ON TEST: 656

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800983

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 1 - 13]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 630

TMT: 6

SEX: Female

DAY ON TEST: 728

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 631

TMT: 6

SEX: Female

DAY ON TEST: 650

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 6+7+17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 14+15+16]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLs = 6 - 18]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 4 - 13]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
		Inflammation	Mild
		Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 631

TMT: 6

SEX: Female

DAY ON TEST: 650

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800985

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus	Cervix	Hypertrophy	Mild
[Hypertrophy	TGLs = 7 - 19]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 632

TMT: 6

SEX: Female

DAY ON TEST: 656

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 633

TMT: 6

SEX: Female

DAY ON TEST: 643

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* 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	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Intestine Large, Rectum		Polyp Adenomatous	
	[Polyp Adenomatous TGLs = 7 - 18]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4 - 13+14+15+16]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 17]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 634

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 620
HISTO: 0800988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | | | |

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Fatty Change | Focal, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 13+14] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 4 - 8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | [Polyp Stromal TGLs = 3 - 11] | Polyp Stromal | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 635

TMT: 6

SEX: Female

DAY ON TEST: 631

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* 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	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Bone		Hyperplasia	Mild
Note: Bone (periosteal) hyperplasia probably a response to inflammation in the subcutis overlying the maxilla.			
* Bone Marrow		Hyperplasia	Moderate
* Eye	Lens	Cataract	Mild
	Antr Chamber	Inflammation	Moderate
	[Inflammation TGLs = 4 - 10]		
* Harderian Gland		Inflammation	Marked
	[Inflammation TGLs = 3 - 13]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Minimal
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 14+15]		
* Nose		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 635

TMT: 6

SEX: Female

DAY ON TEST: 631

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800989

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Harderian Gland Inflammation

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 636

TMT: 6

SEX: Female

DAY ON TEST: 641

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Uterus

OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Benign TGLs = 6 - 18]	Pheochromocytoma Benign	
* Bone	Osteopetrosis	Moderate
* Bone Marrow	Hyperplasia	Moderate
* Heart	Cardiomyopathy	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
	Hematopoietic Cell Proliferation	Minimal
	Inflammation	Chronic Active, Minimal
* Mammary Gland [Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17]	Fibroadenoma	Multiple
* Pituitary Gland Pars Distalis	Hyperplasia	Minimal
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Hemosiderin, Minimal
* Thymus	Atrophy	Moderate
* Thyroid Gland C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 637

TMT: 6

SEX: Female

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* 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	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
	[Basophilic Focus TGLs = 4 - 6+7]		
	[Hepatodiaphragmatic Nodule TGLs = 5 - 16]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Ovary		Atrophy	Moderate
		Cyst	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 637

TMT: 6

SEX: Female

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800991

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 638

TMT: 6

SEX: Female

DAY ON TEST: 663

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 6 - 12]		
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 13]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2,3,4,5 - 14+15+16+17]		
* Ovary		Cyst	Minimal
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 639

TMT: 6

SEX: Female

DAY ON TEST: 727

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Harderian Gland	* 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
* Uterus			

OBSERVATIONS

* Eye	Retina	Gliosis	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 640

TMT: 6

SEX: Female

DAY ON TEST: 601

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Hyperplasia	Mild
* Eye	Lens	Cataract	Moderate
	Retina	Degeneration	Marked
		Fibrosis	Mild
	[Cataract TGLs = 8 - 10]		
	[Fibrosis TGLs = 9 - 10]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Fatty Change	Focal, Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 7 - 13]		
	[Hepatodiaphragmatic Nodule TGLs = 6 - 18]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 14+15+16]		
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 640

TMT: 6

SEX: Female

DAY ON TEST: 601

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800994

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	Follicular Cel	Adenoma	

[Adenoma TGLs = 10 - 8]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 641

TMT: 6

SEX: Female

DAY ON TEST: 574

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 2 - 14]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Eosinophilic Focus	
	Periportal	Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Eosinophilic Focus TGLs = 5 - 17]		
	[Hepatodiaphragmatic Nodule TGLs = 4 - 16]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
		Hyperplasia	Minimal
	[Fibroadenoma TGLs = 3 - 15]		
* Nose		Foreign Body	
		Inflammation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 641

TMT: 6

SEX: Female

DAY ON TEST: 574

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800995

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin		Fibroma	
	[Fibroma TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Clitoral Gland Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 642

TMT: 6

SEX: Female

DAY ON TEST: 715

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Esophagus
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Parathyroid Gland	* Skin	* Trachea	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Clitoral Gland		Leukemia Mononuclear	
* Eye	Lens	Cataract	Minimal
	Retina	Degeneration	Minimal
* Heart		Cardiomyopathy	Minimal
		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 6 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 10 - 20]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 12 - 22]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 9 - 19]		
* Mammary Gland		Fibroadenoma	Multiple
		Leukemia Mononuclear	

Note: A large proportion of TGLs 2-4 is actually composed of leukemic lymphocytes/blasts.

[Fibroadenoma TGLs = 1,2,3,4 - 13+14+15+16]

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 642

TMT: 6

SEX: Female

DAY ON TEST: 715

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800996

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLs = 7 - 17]
* Nose Leukemia Mononuclear
* Ovary Leukemia Mononuclear
* Pituitary Gland Pars Distalis Adenoma
[Adenoma TGLs = 11 - 21]
* Salivary Glands Leukemia Mononuclear
* Spleen Leukemia Mononuclear
[Leukemia Mononuclear TGLs = 5 - 5]
* Stomach, Forestomach Leukemia Mononuclear
* Stomach, Glandular Leukemia Mononuclear
* Thymus Leukemia Mononuclear
* Thyroid Gland C Cell Adenoma
Leukemia Mononuclear
* Urinary Bladder Leukemia Mononuclear
* Uterus Leukemia Mononuclear
[Leukemia Mononuclear TGLs = 8 - 18]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 643

TMT: 6

SEX: Female

DAY ON TEST: 728

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone		Osteopetrosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Basophilic Focus TGLs = 6 - 6+7+18]		
* Lung		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17]		
* Nose		Inflammation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 644

TMT: 6

SEX: Female

DAY ON TEST: 728

DOSE: 500 mg/L

DISP: Terminal Sacrifice

HISTO: 0800998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Uterus	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Inflammation	Mild
* Brain		Oligodendroglioma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney	Pelvis	Calculus Micro Observation Only	
		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic Active, Mild
	[Basophilic Focus TGLs = 3 - 6+7+17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 15+16]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 5 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Carcinoma	
	C Cell	Hyperplasia	Mild
	[Carcinoma TGLs = 4 - 13]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 645

TMT: 6

SEX: Female

DAY ON TEST: 588

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Minimal
		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
Note: While an HDN is unusual in this location (caudate lobe) that is definitely what the TGL-2 looks like subgrossly and microscopically.			
	[Hepatodiaphragmatic Nodule TGLs = 2 - 14]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 645

TMT: 6

SEX: Female

DAY ON TEST: 588

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0800999

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 646

TMT: 6

SEX: Female

DAY ON TEST: 635

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Pituitary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
		Hyperplasia	Moderate
Note: TGL-3 = adenoma and clitoral gland hyperplasia. [Adenoma TGLs = 3 - 12]			
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1,2 - 13+14]			
* Nose		Inflammation	Minimal
* Pancreas		Atrophy	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 647

TMT: 6

SEX: Female

DAY ON TEST: 704

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * 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 | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | Lens | Cataract | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | [Basophilic Focus TGLs = 6 - 6+7+20] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | Multiple |
| | [Carcinoma TGLs = 3 - 15] | | |
| | [Fibroadenoma TGLs = 1,2,4,5,7 - 13+14+16+17+18] | | |
| * Ovary | | Cyst | Mild |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Marked |
| | [Hyperplasia TGLs = 8 - 19] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 647

TMT: 6

SEX: Female

DAY ON TEST: 704

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801001

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 648

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 643
HISTO: 0801002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | Blood Vessel | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * 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

- | | | | |
|-------------------|--|----------------------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 2 - 14] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Pituitary Gland | Pars Distalis | Vacuolization Cytoplasmic | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Uterus | | Polyp Stromal | |
| | [Polyp Stromal TGLs = 3 - 15] | | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 649

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 533
HISTO: 0801003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|-------------------------------------|----------------------------------|-------------------------|
| * Adrenal Cortex | | Adenoma | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Mineralization | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | Multiple |
| | [Carcinoma TGLs = 2 - 14] | | |
| | [Fibroadenoma TGLs = 1,3 - 13+15] | | |
| * Nose | | Foreign Body | |
| | | Inflammation | Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 649

TMT: 6

SEX: Female

DAY ON TEST: 533

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801003

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 650

TMT: 6

SEX: Female

DAY ON TEST: 568

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 651

TMT: 6

SEX: Female

DAY ON TEST: 663

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Eye	Lens	Cataract	Marked
	Retina	Degeneration	Marked
	[Cataract TGLs = 4 - 10]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Nose		Inflammation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 6 - 17]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLs = 5 - 16]	Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 651

TMT: 6

SEX: Female

DAY ON TEST: 663

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801005

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 652

TMT: 6

SEX: Female

DAY ON TEST: 561

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* 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
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Eye	Lens	Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLs = 3 - 10]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 4 - 15]		
	[Hepatodiaphragmatic Nodule TGLs = 5 - 16]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 6 - 17]		
* Spleen		Hematopoietic Cell Proliferation	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 652

TMT: 6

SEX: Female

DAY ON TEST: 561

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801006

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Pigmentation

Hemosiderin, Minimal

* Thyroid Gland

C Cell

Atrophy

Moderate

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 653

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 561
HISTO: 0801007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | | |
|------------------------|--|----------------------------------|-------------------------|
| * Bone | | Osteopetrosis | Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Inflammation | Chronic Active, Minimal |
| | [Hepatodiaphragmatic Nodule TGLs = 2 - 14] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Pancreas | | Atrophy | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| * Thymus | | Atrophy | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 654

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 635
HISTO: 0801008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|-------------------------|
| * Bone | | Osteopetrosis | Moderate |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hematopoietic Cell Proliferation | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 6 - 18] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 655

TMT: 6

SEX: Female

DAY ON TEST: 645

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone		Osteopetrosis	Minimal
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 4 - 16]		
* Ovary		Cyst	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 657

TMT: 6
DOSE: 500 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 449
HISTO: 0801011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------------|-------------------------|
| * Bone | | Osteopetrosis | Moderate |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Hepatodiaphragmatic Nodule | |
| | [Hepatodiaphragmatic Nodule TGLs = 3 - 15] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lymph Node, Mandibular | | Infiltration Cellular | Plasma Cell, Moderate |
| | [Infiltration Cellular TGLs = 2 - 14] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Ovary | | Atrophy | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Skin | Sebaceous GI | Hyperplasia | Mild |
| | Note: Lesion in nasal section B01. | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | [Hyperplasia TGLs = 4 - 16] | | |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 658

TMT: 6

SEX: Female

DAY ON TEST: 564

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Necrosis	Focal, Minimal
	[Basophilic Focus TGLs = 3 - 6+7+15]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 658

TMT: 6

SEX: Female

DAY ON TEST: 564

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801012

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 659

TMT: 6

SEX: Female

DAY ON TEST: 386

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLs = 3 - 14]		
* Mammary Gland		Adenoma	
	[Adenoma TGLs = 2 - 13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLs = 1 - 5]		
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 660

TMT: 6

SEX: Female

DAY ON TEST: 498

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thymus | | Atrophy | Moderate |
| * Uterus | Cervix | Infiltration Cellular | Histiocyte, Moderate |
| | | Polyp Stromal | |

Note: The histiocytes in the cervical infiltrate contain abundant clear vacuoles resembling fat or mucous.

[Infiltration Cellular TGLs = 2 - 14]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 664

TMT: 6

SEX: Female

DAY ON TEST: 645

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------|--|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Pelvis | Calculus Micro Observation Only | |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| | [Basophilic Focus TGLs = 6 - 6+7+18] | | |
| | [Hepatodiaphragmatic Nodule TGLs = 5 - 17] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 2,3,4 - 14+15+16] | | |
| * Ovary | | Cyst | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Uterus | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 664

TMT: 6

SEX: Female

DAY ON TEST: 645

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801018

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLs = 1 - 13]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 665

TMT: 6

SEX: Female

DAY ON TEST: 561

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain		Astrocytoma Malignant	
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Moderate
		Inflammation	Chronic Active, Minimal
	[Fatty Change TGLs = 2 - 14]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	Note: "Normal" section also contains fibroadenoma.		
	[Fibroadenoma TGLs = 1 - 13]		
* Nose		Inflammation	Minimal
* Ovary		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Brain Astrocytoma Malignant

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 666

TMT: 6

SEX: Female

DAY ON TEST: 609

DOSE: 500 mg/L

DISP: Moribund Sacrifice

HISTO: 0801020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4 - 13+14+15+16]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 5 - 17]		
* Spleen		Leukemia Mononuclear	
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 701

TMT: 8

SEX: Female

DAY ON TEST: 247

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0801021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Atrophy	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
	Papilla	Necrosis	Moderate
* Liver		Inflammation	Chronic Active, Minimal
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Kidney Papilla Necrosis

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 702

TMT: 8

SEX: Female

DAY ON TEST: 519

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Uterus		Sarcoma	
	[Sarcoma TGLs = 2 - 14]		

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 703

TMT: 8
 DOSE: 1000 mg/L

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 643
 HISTO: 0801023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	Centrilobular	Necrosis	Mild
	[Hepatodiaphragmatic Nodule TGLs = 6 - 18]		
	[Necrosis TGLs = 7 - 18]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
	[Carcinoma TGLs = 2 - 14]		
	[Fibroadenoma TGLs = 1,3,4,5 - 13+15+16+17]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLs = 8 - 19]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 703

TMT: 8

SEX: Female

DAY ON TEST: 643

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801023

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

* Uterus

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 704

TMT: 8

SEX: Female

DAY ON TEST: 620

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Brain		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 3 - 6+7]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 4 - 8]		
* Spleen		Leukemia Mononuclear	
		Thrombosis	Mild
	Note: TGL-2 = Organizing thrombus on the splenic capsule.		
	[Leukemia Mononuclear TGLs = 1 - 13]		
	[Thrombosis TGLs = 2 - 13]		
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 704

TMT: 8

SEX: Female

DAY ON TEST: 620

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801024

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 705

TMT: 8
 DOSE: 1000 mg/L

SEX: Female
 DISP: Moribund Sacrifice

DAY ON TEST: 641
 HISTO: 0801025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Pigmentation	Hemosiderin, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 4 - 16]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Ovary		Cyst	Mild
	[Cyst TGLs = 5 - 17]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 705

TMT: 8

SEX: Female

DAY ON TEST: 641

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801025

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 706

TMT: 8

SEX: Female

DAY ON TEST: 656

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone	Vertebra	Fracture	
Note: Caudal vertebral fracture (healing) was involved in TGL-8.			
* Bone Marrow		Hyperplasia	Moderate
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Hematopoietic Cell Proliferation	Minimal
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLs = 7 - 18]			
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin	Epidermis	Hyperkeratosis	Moderate
		Inflammation	Mild
[Inflammation TGLs = 8 - 19]			
* Spleen	Lymph Follic	Atrophy	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 706

TMT: 8

SEX: Female

DAY ON TEST: 656

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801026

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Hematopoietic Cell Proliferation	Moderate
* Uterus	Endometrium	Atrophy	Moderate
		Carcinoma	

Note: The uterine carcinoma has a large area of squamous metaplasia.

[Carcinoma TGLs = 6 - 11]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 707

TMT: 8

SEX: Female

DAY ON TEST: 638

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0801027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
		Hyperplasia	Moderate
Note: The mammary carcinoma has squamous and osseous metaplasia.			
			[Carcinoma TGLs = 5 - 17]
			[Fibroadenoma TGLs = 1,2,3,4 - 13+14+15+16]
			[Hyperplasia TGLs = 6 - 18]
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
			[Adenoma TGLs = 7 - 19]
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Stomach, Forestomach	Epithelium	Dysplasia	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 708

TMT: 8

SEX: Female

DAY ON TEST: 509

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Necrosis	Mild
* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland	Duct	Adenoma	
Note: "Adenoma" within the duct is actually a small squamous cell papilloma.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 2 - 14]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
	[Carcinoma TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 709

TMT: 8

SEX: Female

DAY ON TEST: 663

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Eye
* Harderian Gland	* 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	* Uterus		

OBSERVATIONS

* Clitoral Gland	Duct	Adenoma	
Note: The clitoral gland "adenoma" is actually a small squamous cell papilloma. [Adenoma TGLs = 6 - 18]			
* Kidney		Mineralization Nephropathy	Minimal Mild
* Liver		Basophilic Focus Clear Cell Focus Eosinophilic Focus Fatty Change Inflammation	Diffuse, Minimal Chronic Active, Minimal
[Basophilic Focus TGLs = 7 - 19]			
* Lung	Alveolar Epith Alveolus	Hyperplasia Infiltration Cellular Fibroadenoma	Mild Histiocyte, Minimal Multiple
* Mammary Gland			
[Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLs = 8 - 20]			
* Spleen		Hematopoietic Cell Proliferation Pigmentation	Mild Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 709

TMT: 8

SEX: Female

DAY ON TEST: 663

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801029

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 710

TMT: 8

SEX: Female

DAY ON TEST: 601

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Nose		Inflammation	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 716

TMT: 8

SEX: Female

DAY ON TEST: 411

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0801036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone		Osteopetrosis	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Spleen	Lymph Follic	Atrophy	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- UNCERTAIN

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 717

TMT: 8

SEX: Female

DAY ON TEST: 544

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Mild
		Necrosis	Mild
	Note: Necrotic cells are no longer present in the marrow - only a well-demarcated acellular area of congestion. Remaining marrow is hyperplastic (all lineages).		
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Pancreas		Atrophy	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 718

TMT: 8
DOSE: 1000 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 554
HISTO: 0801038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

- | | | | |
|--|---------------|-----------------------|----------------------|
| * Adrenal Cortex | | Necrosis | Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Leukemia Mononuclear | |
| | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Fatty Change | Diffuse, Minimal |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Carcinoma | |
| Note: The mammary carcinoma has several areas of squamous metaplasia.
[Carcinoma TGLs = 1 - 13] | | | |
| * Ovary | | Cyst | Minimal |
| * Pancreas | | Atrophy | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Leukemia Mononuclear | |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 719

TMT: 8

SEX: Female

DAY ON TEST: 572

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Harderian Gland
* 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	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Marked
	Cornea	Inflammation	Mild
	[Cataract TGLs = 2 - 10]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
	[Basophilic Focus TGLs = 3 - 14]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 720

TMT: 8

SEX: Female

DAY ON TEST: 544

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign Pheochromocytoma Malignant	Multiple
	[Pheochromocytoma Malignant TGLs = 4 - 13]		
* Bone Marrow		Hyperplasia	Mild
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 1 - 16]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization Nephropathy	Minimal Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
	[Pheochromocytoma Malignant TGLs = 5,6 - 3+4+14]		
* Ovary		Cyst	Minimal
		Pheochromocytoma Malignant	Metastatic (Adrenal Medulla)
* Skin		Hyperplasia	Squamous, Minimal
	[Hyperplasia TGLs = 2 - 17]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland		Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 3 - 15]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 720

TMT: 8

SEX: Female

DAY ON TEST: 544

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801040

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Adrenal Medulla Pheochromocytoma Malignant

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 721

TMT: 8

SEX: Female

DAY ON TEST: 585

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|----------------------------|----------------------------------|-------------------------|
| * Bone | | Osteopetrosis | Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| | | Myelofibrosis | Minimal |
| * Clitoral Gland | | Adenoma | |
| | [Adenoma TGLs = 2 - 12] | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Serosa | Fibrosis | Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Inflammation | Chronic Active, Minimal |
| | [Fibrosis TGLs = 3 - 14] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Nose | | Inflammation | Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Skin | | Fibroma | |
| | [Fibroma TGLs = 1 - 13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Skin Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 722

TMT: 8

SEX: Female

DAY ON TEST: 628

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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		

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Hypertrophy	Mild
* Bone Marrow		Hyperplasia	Marked
		Inflammation	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLs = 1 - 13]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
		Mixed Cell Focus	
[Hepatodiaphragmatic Nodule TGLs = 2 - 14]			
* Lung		Inflammation	Chronic Active, Mild
* Mammary Gland		Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLs = 3 - 15]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 722

TMT: 8

SEX: Female

DAY ON TEST: 628

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801042

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Clitoral Gland Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 723

TMT: 8

SEX: Female

DAY ON TEST: 494

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Angiectasis	Moderate
		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
	[Angiectasis TGLs = 2 - 14]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 724

TMT: 8

SEX: Female

DAY ON TEST: 414

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow	Hyperplasia	Marked
* Kidney	Nephropathy	Minimal
* Liver	Angiectasis	Moderate
	Basophilic Focus	
	Hematopoietic Cell Proliferation	Minimal
* Lung	Inflammation	Chronic Active, Minimal
* Mammary Gland	Fibroadenoma	
[Fibroadenoma TGLs = 2 - 14]		
* Spleen	Hematopoietic Cell Proliferation	Mild
	Pigmentation	Hemosiderin, Minimal
* Thymus	Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 725

TMT: 8

SEX: Female

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0801045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Ovary	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Eye	Lens	Pheochromocytoma Benign	Moderate
	Retina	Cataract	Marked
	[Cataract TGLs = 4 - 10]	Degeneration	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 3 - 6+7]	Leukemia Mononuclear	
* Lung		Inflammation	Chronic Active, Moderate
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 14]	Hyperplasia	Minimal
* Nose		Foreign Body	
		Inflammation	Moderate
* Pancreas		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 725

TMT: 8

SEX: Female

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0801045

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 726

TMT: 8

SEX: Female

DAY ON TEST: 529

DOSE: 1000 mg/L

DISP: Natural Death

HISTO: 0801046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* 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
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Inflammation	Marked
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Nose		Inflammation	Mild
Oral Mucosa	Pharyngeal	Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLs = 3 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH - Oral Mucosa Pharyngeal Squamous Cell Papilloma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 727

TMT: 8
DOSE: 1000 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 635
HISTO: 0801047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * 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

- | | | | |
|-------------------|--------------------------------|----------------------------------|-------------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Lung | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLs = 1 - 13] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 728

TMT: 8

SEX: Female

DAY ON TEST: 586

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 6 - 6+7]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Mild
	[Fibroadenoma TGLs = 1,2,3,4 - 13+15+16+17]		
* Pancreas		Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 14]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 729

TMT: 8

SEX: Female

DAY ON TEST: 568

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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 Marrow		Hyperplasia	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 730

TMT: 8

SEX: Female

DAY ON TEST: 620

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 |
| * Uterus | | | |

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Fatty Change | Diffuse, Minimal |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Inflammation | Chronic Active, Minimal |
| | | Mixed Cell Focus | |
| | [Hepatodiaphragmatic Nodule TGLs = 3 - 15] | | |
| | [Mixed Cell Focus TGLs = 4 - 16] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2 - 13+14] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Marked |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 730

TMT: 8

SEX: Female

DAY ON TEST: 620

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801050

ORGAN AND ACCOUNTABLE SITE STATUS

Zymbal's Gland

Carcinoma

[Carcinoma TGLs = 5 - 17]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 736

TMT: 8

SEX: Female

DAY ON TEST: 628

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|-----------------|--|----------------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic Active, Minimal |
| | [Basophilic Focus TGLs = 1 - 6+7] | | |
| * Lung | Alveolar Epith | Hyperplasia | Minimal |
| | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | Multiple |
| | Note: The mammary carcinoma appears of ductal origin (largely squamous). | | |
| | [Carcinoma TGLs = 5 - 16] | | |
| | [Fibroadenoma TGLs = 2,3,4 - 13+14+15] | | |
| * Pancreas | | Atrophy | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Uterus | | Polyp Stromal | |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 736

TMT: 8

SEX: Female

DAY ON TEST: 628

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801056

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 737

TMT: 8

SEX: Female

DAY ON TEST: 594

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Stomach, Forestomach | * Stomach, Glandular |
| * Thyroid Gland | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

- | | | |
|---|----------------------------------|-------------------------|
| * Bone Marrow | Hyperplasia | Moderate |
| * Kidney | Nephropathy | Minimal |
| * Liver | Basophilic Focus | |
| | Clear Cell Focus | |
| | Eosinophilic Focus | |
| | Hepatocellular Adenoma | |
| | Inflammation | Chronic Active, Minimal |
| [Hepatocellular Adenoma TGLs = 6 - 14] | | |
| * Lung | Inflammation | Chronic Active, Mild |
| * Mammary Gland | Carcinoma | |
| | Fibroadenoma | Multiple |
| [Carcinoma TGLs = 2 - 15] | | |
| [Fibroadenoma TGLs = 1,3,4,5 - 13+16+17+18] | | |
| * Spleen | Hematopoietic Cell Proliferation | Mild |
| | Pigmentation | Hemosiderin, Mild |
| | Thrombosis | Mild |
| Note: There is an area of thrombosis with recanalization within the red pulp. | | |
| * Thymus | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 738

TMT: 8

SEX: Female

DAY ON TEST: 635

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Zona Fascult	Hyperplasia	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Polyp Adenomatous	
	[Polyp Adenomatous TGLs = 4 - 16]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
		Hyperplasia	Minimal
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Marked
* Uterus	Cervix	Inflammation	Marked
	Cervix	Metaplasia	Squamous, Mild
	[Inflammation TGLs = 3 - 15]		

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 739

TMT: 8

SEX: Female

DAY ON TEST: 623

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Infarct	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2 - 13+14]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 740

TMT: 8

SEX: Female

DAY ON TEST: 656

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule		
	TGLs = 3 - 15]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma		
	TGLs = 1,2 - 13+14]		
* Ovary		Atrophy	Mild
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 741

TMT: 8

SEX: Female

DAY ON TEST: 721

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 | * Uterus | | |

OBSERVATIONS

- | | | | |
|-------------------|---|----------------------------------|----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| | | Inflammation | Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Inflammation | Chronic Active, Mild |
| * Mammary Gland | | Carcinoma | |
| | | Fibroadenoma | Multiple |
| | [Carcinoma TGLs = 2 - 15] | | |
| | [Fibroadenoma TGLs = 1,3,4,5 - 14+16+17+18] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 6 - 13] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 742

TMT: 8
DOSE: 1000 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 561
HISTO: 0801062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

- | | | | |
|-----------------|---|----------------------|-------------------------|
| * Bone | | Osteopetrosis | Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Fatty Change | Diffuse, Moderate |
| | Bile Duct | Hyperplasia | Mild |
| | [Leukemia Mononuclear TGLs = 2 - 6+7] | Leukemia Mononuclear | |
| * Lung | | Inflammation | Chronic Active, Minimal |
| | | Leukemia Mononuclear | |
| * Mammary Gland | | Hyperplasia | Minimal |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLs = 1 - 5] | | |
| * Thymus | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 743

TMT: 8

SEX: Female

DAY ON TEST: 623

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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

* Clitoral Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLs = 4 - 16]		

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 744

TMT: 8

SEX: Female

DAY ON TEST: 594

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
* Bone Marrow		Hyperplasia	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 6 - 18]		
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4,5 - 13+14+15+16+17]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 745

TMT: 8

SEX: Female

DAY ON TEST: 656

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone		Osteopetrosis	Moderate
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
	[Nephropathy TGLs = 3 - 5]		
* Liver		Basophilic Focus	
		Fatty Change	Diffuse, Minimal
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[Hepatodiaphragmatic Nodule TGLs = 2 - 14]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]	Hyperplasia	Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Spleen		Leukemia Mononuclear	
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 745

TMT: 8

SEX: Female

DAY ON TEST: 656

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801065

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 749

TMT: 8

SEX: Female

DAY ON TEST: 631

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801069

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 750

TMT: 8

SEX: Female

DAY ON TEST: 631

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801070

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Brain	* Clitoral Gland	* Esophagus
* Eye	* 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	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Degeneration	Cystic, Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone		Osteopetrosis	Mild
* Bone Marrow		Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Mineralization	Minimal
		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Leukemia Mononuclear	
Lymph Node	Mediastinal		
	[Leukemia Mononuclear TGLs = 4 - 15]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 5 - 16]		
* Mammary Gland		Fibroadenoma	

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 750

TMT: 8

SEX: Female

DAY ON TEST: 631

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801070

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLs = 1 - 14]

Hyperplasia

Minimal

* Nose

Note: MCL present in nasal septum between incisive ducts.

Inflammation

Mild

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLs = 6 - 17]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLs = 2,3 - 13]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 751

TMT: 8

SEX: Female

DAY ON TEST: 587

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801071

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 2 - 14]		
* Lung		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 3 - 15]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 752

TMT: 8

SEX: Female

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0801072

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 5 - 17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
Lymph Node	Mediastinal	Infiltration Cellular	Plasma Cell, Mild
	Note: Mediastinal lymph nodes also have accumulations of siderophages (not diagnosed).		
	[Infiltration Cellular TGLs = 4 - 16]		
* Mammary Gland		Adenoma	
		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2,3 - 14+15]		
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Inflammation	Mild
	Note: TGL-1 inflammation comprises a serocellular crust with abundant neutrophils.		
	[Inflammation TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 752

TMT: 8

SEX: Female

DAY ON TEST: 727

DOSE: 1000 mg/L

DISP: Terminal Sacrifice

HISTO: 0801072

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus
* Thyroid Gland

C Cell

Pigmentation
Atrophy
Adenoma

Hemosiderin, Minimal
Moderate

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 753

TMT: 8

SEX: Female

DAY ON TEST: 551

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801073

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Harderian Gland	* 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	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,3 - 13+15]		
* Ovary		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 2 - 14]		
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Pigmentation	Hemosiderin, Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 754

TMT: 8
DOSE: 1000 mg/L

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 623
HISTO: 0801074

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * 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 Marrow | | Hyperplasia | Mild |
| | | Necrosis | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Mineralization | Minimal |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule TGLs = 4 - 16] | | |
| | [Leukemia Mononuclear TGLs = 5 - 6+7+16] | | |
| * Lung | Alveolus | Infiltration Cellular | Histiocyte, Minimal |
| | | Inflammation | Chronic Active, Minimal |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLs = 1,2,3 - 13+14+15] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLs = 7 - 8] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| | | Pigmentation | Hemosiderin, Minimal |
| * Thymus | | Atrophy | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 754

TMT: 8

SEX: Female

DAY ON TEST: 623

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801074

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLs = 6 - 17]

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 755

TMT: 8

SEX: Female

DAY ON TEST: 488

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801075

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Mild
* Liver		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Adenoma	
	[Adenoma TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Adenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 759

TMT: 8

SEX: Female

DAY ON TEST: 596

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801079

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
	[Leukemia Mononuclear TGLs = 3 - 6+7]	Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Leukemia Mononuclear	
	[Fibroadenoma TGLs = 1 - 14]	Fibroadenoma	
		Hyperplasia	Minimal
* Ovary		Leukemia Mononuclear	
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Angiectasis	Minimal
	[Angiectasis TGLs = 4 - 15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 2 - 13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 759

TMT: 8

SEX: Female

DAY ON TEST: 596

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801079

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 760

TMT: 8

SEX: Female

DAY ON TEST: 631

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801080

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* 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	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
		Inflammation	Minimal
* Brain		Oligodendroglioma Malignant	
* Heart		Cardiomyopathy	Mild
* Intestine Large, Colon		Parasite Metazoan	
		Polyp Adenomatous	
	[Polyp Adenomatous TGLs = 5 - 17]		
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
	[Eosinophilic Focus TGLs = 6 - 18]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3 - 13+14+15]		
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Spleen		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 760

TMT: 8

SEX: Female

DAY ON TEST: 631

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801080

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 761

TMT: 8

SEX: Female

DAY ON TEST: 519

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801081

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 1 - 13]		
* Pancreas		Atrophy	Minimal
	Acinus	Hyperplasia	Marked
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 762

TMT: 8

SEX: Female

DAY ON TEST: 594

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801082

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Mineralization	Minimal
		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Minimal
	[Hepatodiaphragmatic Nodule TGLs = 2 - 14]		
* Lung	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Minimal
* Skin		Fibroma	
	[Fibroma TGLs = 1 - 13]		
* Spleen		Hematopoietic Cell Proliferation	Mild
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Skin Fibroma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 763

TMT: 8

SEX: Female

DAY ON TEST: 620

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801083

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hematopoietic Cell Proliferation	Minimal
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 5 - 17]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 1,2,3,4 - 13+14+15+16]		
* Pancreas		Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLs = 6 - 18]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal
* Thymus		Atrophy	Moderate
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 764

TMT: 8

SEX: Female

DAY ON TEST: 636

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801084

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* 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	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart	Epicardium	Inflammation	Mild
Note: Epicarditis was associated with bacteria.			
* Kidney	Renal Tubule	Dilatation	Mild
		Mineralization	Minimal
	Renal Tubule	Necrosis	Minimal
* Liver		Basophilic Focus	
		Hemangiosarcoma	
		Hepatodiaphragmatic Nodule	
	Centrilobular	Necrosis	Moderate
	[Hemangiosarcoma TGLs = 2 - 14]		
	[Hepatodiaphragmatic Nodule TGLs = 3 - 14]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mesenteric		Infiltration Cellular	Histiocyte, Mild
	[Infiltration Cellular TGLs = 7 - 17]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLs = 4 - 15]		
* Ovary		Atrophy	Moderate
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Moderate
	[Hemangiosarcoma TGLs = 1 - 13]		

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 764

TMT: 8

SEX: Female

DAY ON TEST: 636

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801084

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular [Erosion TGLs = 8 - 6]		Erosion	Mild
* Thymus		Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Uterus	Endometrium	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH - Spleen Hemangiosarcoma
CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 765

TMT: 8

SEX: Female

DAY ON TEST: 641

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801085

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 3,4,5 - 15+16+17]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLs = 1 - 13]		
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
* Uterus		Polyp Stromal	
Zymbal's Gland		Carcinoma	
	[Carcinoma TGLs = 6 - 18]		

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Water disinfection byproducts (Bromodichloroacetic acid)
CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
Time Report Requested: 14:40:17
First Dose M/F: 10/26/06 / 10/27/06
Lab: BAT

ANIMAL NUM: 765

TMT: 8

SEX: Female

DAY ON TEST: 641

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801085

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH - Mammary Gland Fibroadenoma

TDMS No. 96014 - 05
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Water disinfection byproducts (Bromodichloroacetic acid)
 CAS Number: 71133-14-7

Date Report Requested: 11/19/2009
 Time Report Requested: 14:40:17
 First Dose M/F: 10/26/06 / 10/27/06
 Lab: BAT

ANIMAL NUM: 766

TMT: 8

SEX: Female

DAY ON TEST: 519

DOSE: 1000 mg/L

DISP: Moribund Sacrifice

HISTO: 0801086

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Esophagus	* Harderian Gland	* 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	* Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Adenoma	
	[Adenoma TGLs = 1 - 13]		
* Eye	Lens	Cataract	Mild
	Retina	Degeneration	Marked
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Parasite Metazoan	
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Hematopoietic Cell Proliferation	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLs = 4 - 16]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLs = 2,3 - 14+15]		
* Nose			
	Note: Inflammation in B01 involving facial connective tissue, possibly arising from tooth, not diagnosed because tooth is not a required tissue and is not in section.		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLs = 5 - 17]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Pigmentation	Hemosiderin, Minimal

* PROTOCOL REQUIRED TISSUE

TDMS No. 96014 - 05
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F344/N Tac

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
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ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

- Clitoral Gland Adenoma

*** END OF REPORT ***