

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | |
|-----------------------------|------------|
| C Number: | C96010A |
| Lock Date: | 10/16/2001 |
| Cage Range: | All |
| Date Range: | All |
| Reasons For Removal: | All |
| Removal Date Range: | All |
| Treatment Groups: | All |
| Study Gender: | Both |
| PWG Approval Date | 06/11/2003 |

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 1 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92322 |
|---------------------|---------------------------------------|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|---------------------------|----------------------------------|------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 2 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92323 |
|---------------------|---------------------------------------|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|---------------------------|----------------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLS = 5-10] | | | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-21] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| Note: Pancreas is affected with edema, which is not an available diagnosis in LDAS 2 terminology (TGL 4-7). | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 2 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92323 |
|---------------------|---------------------------------------|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|----------|----------------|-------------|
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Mild |

| | |
|------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 3 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92324 |
|---------------------|---------------------------------------|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|------------------------------|---------------------------|---------------------|
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Moderate |
| * Heart | | Infiltration Cellular | Mixed Cell, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Prostate | | Mineralization | Focal, Mild |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92324

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 4 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: 00-92325 |
|---------------------|---------------------------------------|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|---------------------------|--------------------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Diffuse, Mild |
| | | | [Leukemia Mononuclear TGLS = 2-6] |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Focal, Mild |
| | | | [Leukemia Mononuclear TGLS = 3-21] |
| | | | [Necrosis TGLS = 3-21] |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | | [Adenoma TGLS = 1-7] |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 4 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: 00-92325 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--|---------------|--------------------------------|------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLS = 3-21] | | | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| [Alveolar/Bronchiolar Carcinoma TGLS = 6-23] | | | |
| Lymph Node | | Ectasia | Marked |
| | Pancreatic | Hemorrhage | Moderate |
| Note: TGL 7-24 involves axillary lymph node. | | | |
| [Ectasia TGLS = 7-24] | | | |
| [Hemorrhage TGLS = 5-7] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 5 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: 00-92326 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Carcinoma Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 6 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: 00-92327 |
|---------------------|---------------------------------------|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------------|----------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | Compression | Focal, Marked |
| [Compression TGLS = 6-1] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Cholangiofibrosis | Marked |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Cholangiofibrosis TGLS = 4-6] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Testes | Interstit Cell | Hyperplasia | Focal, Minimal |
| [Hyperplasia TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 6 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: 00-92327 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | C Cell Follicle | Hyperplasia Mineralization | Moderate Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 574

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * 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 |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|---------------------------|------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-2] | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-22] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-5] | | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 7 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Moribund Sacrifice | DAY ON TEST: 574 HISTO: 00-88783 |
|---------------------|---------------------------------------|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|-------------------------------|---------------------------|
| [Hemorrhage TGLS = 2-21] [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Testes [Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Minimal Focal, Minimal |

| | | | |
|------------------------|------------------------------|--|--|
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear | | |
|------------------------|------------------------------|--|--|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 8 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92328 |
|---------------------|---------------------------------------|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------|---|----------------------------|------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | [Hepatodiaphragmatic Nodule TGLS = 2-6] | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Hemorrhage | Focal, Minimal |
| | Alveolar Epith | Hyperplasia | Focal, Mild |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| | [Necrosis TGLS = 1-21] | | |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 3-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92328

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|----------------------------|--------------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Cholangiofibrosis | Mild |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | [Hepatodiaphragmatic Nodule TGLS = 5-23] | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | [Ectasia TGLS = 4-7] | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLS = 1-21] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 3-7] | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|---------------------|---------------------------------------|---|---|
| ANIMAL ID: 9 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92329 |
|---------------------|---------------------------------------|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|---|--------------------|-----------------------------|----------------|
| Tissue NOS Note: TGL 2-22 affects subcutaneous tissue of the scrotum. [Leiomyoma TGLS = 2-22] | Follicle Pelvic | Mineralization Leiomyoma | Focal, Minimal |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|------------------------------|----------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Mild |
| | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Hepatodiaphragmatic Nodule TGLS = 4-23] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 5-7] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 10 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 731 HISTO: 00-92330 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Testes [Adenoma TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Mild |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------|--|------------------------------|------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | [Clear Cell Focus TGLS = 1-6] | | |
| | [Mixed Cell Focus TGLS = 1-6] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | Alveolar Epith | Hyperplasia | Focal, Mild |
| | Note: Lung adenoma is within a focus of alveolar epithelial hyperplasia. | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLS = 3-21] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 2-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92331

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 381

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 99-87771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

PRESENT BUT NOT EXAMINED

| |
|---------------|
| * Bone Marrow |
|---------------|

OBSERVATIONS

| | | | |
|---|----------------|---------------------------|------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Minimal |
| * Bone Marrow | | | |
| Note: Excess artifact precludes diagnosis of bone marrows. | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Diffuse, Mild |
| Note: Vacuolization of hepatocytes is of configuration typical of fatty change. [Vacuolization Cytoplasmic TGLS = 2-6] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| Note: Necrotic areas of fibrosarcoma (TGL 1-21) show foci of osseous metaplasia. [Fibrosarcoma TGLS = 1-21] | | | |
| * Testes | Germinal Epith | Degeneration | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 381

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 99-87771

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * 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 | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|----------------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLS = 2-22] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| * Lung | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Mild |
| [Hyperplasia TGLS = 6-23] | Alveolar Epith | Hyperplasia | Focal, Mild |
| Lymph Node | Pancreatic | Ectasia | Mild |
| [Ectasia TGLS = 3-24] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92332

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|----------------------------|-------------------------------|---------------------------|
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 4-7] | | | |
| * Thyroid Gland | Follicular Cel Follicle | Hypertrophy Mineralization | Minimal Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|---------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| | | Hyperplasia | Histiocytic, Moderate |
| * Lymph Node, Mesenteric [Hyperplasia TGLS = 4-5] | | | |
| Mesentery [Necrosis TGLS = 3-22] | Fat | Necrosis | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | | Hyperkeratosis | Focal, Moderate |
| | Epidermis | Hyperplasia | Focal, Moderate |
| | | Trichoepithelioma | |
| [Fibroma TGLS = 1-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92333

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperkeratosis TGLS = 6-24]

[Hyperplasia TGLS = 6-24]

[Trichoepithelioma TGLS = 5-23]

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|---------------------------|------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Deep Cervical | Hyperplasia | Plasma Cell, Moderate |
| [Hyperplasia TGLS = 3-22] | | | |
| * Nose | | Inflammation | Chronic, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma TGLS = 1-21] | | | |
| * Spleen | | Congestion | Moderate |
| [Congestion TGLS = 4-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|----------------------|---------------------------------------|---|---|
| ANIMAL ID: 15 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 729 HISTO: 00-92334 |
|----------------------|---------------------------------------|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|--|----------|--------------------|----------------|
| * Thymus | | Lymphoma Malignant | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|----------------|--------------------------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Focal, Mild |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Lung | | Hemorrhage | Focal, Mild |
| | Alveolar Epith | Hyperplasia | Focal, Moderate |
| | | Leukemia Mononuclear | |
| | | [Hemorrhage TGLS = 6-2] | |
| | | [Hyperplasia TGLS = 6-2, 7-24] | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 4-23] | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | | [Fibroma TGLS = 1-21] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92335

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|----------------------|----------------|
| * Spleen [Leukemia Mononuclear TGLS = 3-6, 5-22] | | Leukemia Mononuclear | |
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | Follicle | Cyst | Mild |
| | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|---|--------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Islets, Pancreatic | | Hyperplasia | Focal, Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | | [Clear Cell Focus TGLS = 3-6, 4-21] | |
| | | [Vacuolization Cytoplasmic TGLS = 3-6, 4-21] | |
| Lymph Node | Pancreatic | Hyperplasia | Lymphoid, Moderate |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Moderate |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| * Spleen | Capsule | Accessory Spleen | Focal, Mild |
| | | Note: TGL 1 is small foci of accessory splenic tissue on surface of main splenic capsule. | |
| | | [Accessory Spleen TGLS = 1-6] | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | [Adenoma TGLS = 2-7] | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 17 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 729 HISTO: 00-92336 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------------------|---------------------------|------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | [Adenoma TGLS = 1-7] | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| Tissue NOS | Abdominal | Paraganglioma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|---------------------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| Lymph Node | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Hyperplasia TGLS = 3-22] | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|----------------------|---------------------|---------------------------------|-------------------------|
| ANIMAL ID: 19 | TRT#: 1 | SEX: Male | DAY ON TEST: 731 |
| | DOSE: 0 MG/L | DISP: Terminal Sacrifice | HISTO: 00-92338 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|----------|----------------|----------------|
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 503

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-88281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------|-------------------|----------------------|------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Heart | * Islets, Pancreatic | * Pituitary Gland |
| * Prostate | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Trachea | | | |

MISSING

| | |
|--------------------------|--------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
|--------------------------|--------------------------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Stomach, Glandular | * Thymus | * Thyroid Gland |
| * Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|------------|---|--|-------------------------------------|
| * Liver | | Histiocytic Sarcoma Necrosis | Marked |
| | Centrilobular, Hepatocyte | | |
| | [Histiocytic Sarcoma TGLS = 3-6] | | |
| | [Necrosis TGLS = 3-6] | | |
| * Lung | | Histiocytic Sarcoma | Metastatic (Uncertain Primary Site) |
| | [Histiocytic Sarcoma TGLS = 7-2] | | |
| Lymph Node | Deep Cervical | Histiocytic Sarcoma Histiocytic Sarcoma | |
| | Note: Histiocytic sarcoma of lymph node (site not specified; TGL 5-24) involves axillary lymph node. "Axillary" is not an available term for lymph node site in TDMS. | | |
| | [Histiocytic Sarcoma TGLS = 5-24] | | |
| | [Histiocytic Sarcoma TGLS = 4-23] | | |
| Mesentery | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLS = 2-22] | | |
| * Spleen | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLS = 1-21] | | |
| * Testes | Interstit Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 503

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-88281

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Only one testis showed a microscopic lesion.

[Adenoma TGLS = 6-7]

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|---------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------------------|---------------|----------------------|------------------------|
| * Bone Marrow | | Hyperplasia | Marked |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| [Leukemia Mononuclear TGLS = 4-21] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-22] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| [Adenoma TGLS = 5-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92340

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---------------------------|----------------------|----------------|
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| * Urinary Bladder | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|-------------------|
| * Lymph Node, Mandibular | * Preputial Gland |
|--------------------------|-------------------|

OBSERVATIONS

| | | | |
|-----------------|--|--------------------------------|--------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | [Alveolar/Bronchiolar Carcinoma TGLS = 3-22] | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | [Ectasia TGLS = 2-3] | | |
| | [Hyperplasia TGLS = 2-3] | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLS = 1-21] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 23 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: 00-92341 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| Peripheral Nerve | * Salivary Glands | * Seminal Vesicle | Spinal Cord |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|----------------------|---------------------------|-----------------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Mixed Cell Focus | |
| | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Mild |
| [Vacuolization Cytoplasmic TGLS = 4-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Moderate |
| * Prostate | | Inflammation | Chronic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 695

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90391

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|----------------|----------------|
| * Skin [Fibroma TGLS = 5-21] | Subcut Tiss | Fibroma | |
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|----------------|---------------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | Artery | Inflammation | Chronic, Focal, Mild |
| * Islets, Pancreatic | | Carcinoma | |
| [Carcinoma TGLS = 2-7] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | Alveolar Epith | Hemorrhage | Focal, Minimal |
| | | Hyperplasia | Focal, Minimal |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Inflammation | Chronic, Focal, Mild |
| * Nose | | Inflammation | Suppurative, Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| * Prostate | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92342

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|-------------------------------|----------------------------|
| * Testes [Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Moderate Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | | |
|--------------------------|-----------------|----------|
| * Lymph Node, Mandibular | * Mammary Gland | * Thymus |
|--------------------------|-----------------|----------|

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|---------------------------------------|-------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Moderate |
| | | [Leukemia Mononuclear TGLS = 9-6] | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 8-7-1] | |
| | | [Leukemia Mononuclear TGLS = 11-3] | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 12-5] | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Skin | | Keratoacanthoma | |
| | | [Keratoacanthoma TGLS = 13-21] | |
| * Spleen | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 7-6-1] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89506

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------------------|----------------|----------------|
| * Testes [Adenoma TGLS = 10-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * 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, Mesenteric | * Nose |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|----------------|---------------------------|------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Brain | | Compression | Focal, Mild |
| [Compression TGLS = 4-1] | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Moderate |
| | Alveolus | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Inflammation | Chronic, Focal, Moderate |
| [Hyperplasia TGLS = 6-2, 6-22, 7-23] | | | |
| [Hyperplasia TGLS = 6-2, 6-22, 7-23] | | | |
| [Inflammation TGLS = 6-2, 6-22, 7-23] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| * Mammary Gland | | Dilatation | Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92343

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|-------------------------------|----------------------------------|
| * Pituitary Gland [Adenoma TGLS = 5-1] | Duct Pars Distalis | Cyst Adenoma | Focal, Multiple, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | Epithelium | Hyperplasia Inflammation | Focal, Mild Chronic, Moderate |
| * Skin Note: TGL 1-21 apparently is an epithelial inclusion cyst that had ruptured. [Cyst Epithelial Inclusion TGLS = 1-21] | | Cyst Epithelial Inclusion | Marked |
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Minimal Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------------|------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Islets, Pancreatic | | Adenoma | |
| [Adenoma TGLS = 2-23] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| [Hepatodiaphragmatic Nodule TGLS = 3-22] | | Vacuolization Cytoplasmic | Focal, Moderate |
| Lymph Node | Mediastinal | Ectasia | Mild |
| [Ectasia TGLS = 5-3] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92344

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicle

Mineralization

Focal, Minimal

Tongue

Epithelium

Hyperplasia

Moderate

[Hyperplasia TGLS = 6-24]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| Skeletal Muscle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------------------|-----------------------------------|----------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Cytoplasmic Alteration | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| [Pheochromocytoma Benign TGLS = 1-21] | | | |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92345

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92346

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, Mesenteric | * Mammary Gland | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------------|------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLS = 1-21] | | | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Nose | Nasolacrim Dct | Inflammation | Minimal |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 469

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88176

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------------------|---------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Moderate |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infarct | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| Note: Most of bile duct hyperplasia seen in liver is in the caudate lobe, on slide 24. [Infarct TGLS = 5-24] | | | |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Pancreatic | Angiectasis | Moderate |
| | Pancreatic | Hemorrhage | Mild |
| | Pancreatic | Pigmentation | Mild |
| [Angiectasis TGLS = 2-7] [Hemorrhage TGLS = 2-7] [Pigmentation TGLS = 2-7] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| | | Hyperplasia | Lymphoid, Moderate |
| [Hyperplasia TGLS = 6-5] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|----------------------|---------------------|---------------------------------|-------------------------|
| ANIMAL ID: 31 | TRT#: 1 | SEX: Male | DAY ON TEST: 469 |
| | DOSE: 0 MG/L | DISP: Moribund Sacrifice | HISTO: 00-88176 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|--------------------|-------------------------------|----------------------------------|
| [Hyperplasia TGLS = 6-5] | | | |
| Mesentery | Fat | Necrosis Osteosarcoma | Moderate |
| [Necrosis TGLS = 4-21, 4-22, 4-23] | | | |
| [Osteosarcoma TGLS = 4-21, 4-22, 4-23] | | | |
| * Pancreas | Acinus | Atrophy Inflammation | Focal, Mild Chronic, Moderate |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Stomach, Forestomach | | Schwannoma Malignant | |
| [Schwannoma Malignant TGLS = 3-4, 8-4] | | | |
| * Testes | Interstit Cell | Adenoma | Multiple |
| Note: Only one testis (TGL 9-7-1) showed microscopic lesions (adenomas) confirming masses reported at necropsy. | | | |
| [Adenoma TGLS = 9-7-1] | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 545

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--------------------------|---|---------------------------|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Moderate |
| | | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 9-1, 9-22, 12-1] | | |
| | [Leukemia Mononuclear TGLS = 9-1, 9-22, 12-1] | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLS = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 7-22] | | |
| | [Leukemia Mononuclear TGLS = 4-7-1] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 1-8] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-5] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| ANIMAL ID: 32 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Moribund Sacrifice | DAY ON TEST: 545 HISTO: 00-88456 |
|--|--------------------------------------|---------------------------------------|-------------------------------------|
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| | Pars Distalis | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 10-1] | | |
| | [Hyperplasia TGLS = 10-1] | | |
| | [Leukemia Mononuclear TGLS = 10-1] | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-6] | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | [Hyperplasia TGLS = 11-4] | | |
| | [Leukemia Mononuclear TGLS = 11-4] | | |
| * Stomach, Glandular | | Erosion | Minimal |
| | | Leukemia Mononuclear | |
| | [Erosion TGLS = 11-4] | | |
| | [Leukemia Mononuclear TGLS = 11-4] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 2-7] | | |
| * Thymus | | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 8-3] | | |
| | [Leukemia Mononuclear TGLS = 8-3] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92347

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------------|----------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Harderian Gland | Epithelium | Hyperplasia | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| [Hyperplasia TGLS = 3-3] | | | |
| * Pancreas | Acinus | Hyperplasia | Focal, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hemorrhage | Focal, Moderate |
| | Rathkes Cleft | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 4-1] | | | |
| [Hemorrhage TGLS = 4-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Skin | | Keratoacanthoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92347

ORGAN AND ACCOUNTABLE SITE STATUS

[Keratoacanthoma TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|----------------------------|------------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Harderian Gland | | Carcinoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | | Hepatodiaphragmatic Nodule | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | [Hepatodiaphragmatic Nodule TGLS = 2-22] | Vacuolization Cytoplasmic | Focal, Minimal |
| * Lung | | Foreign Body | Focal, Mild |
| | | Inflammation | Chronic, Focal, Mild |
| | | | [Foreign Body TGLS = 5-23] |
| | | | [Inflammation TGLS = 5-23] |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hemorrhage | Moderate |
| | | | [Hemorrhage TGLS = 6-7] |
| | | | [Hemorrhage TGLS = 4-3] |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:23
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|----------------------|---------------------------------------|---|---|
| ANIMAL ID: 34 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 731 HISTO: 00-92348 |
|----------------------|---------------------------------------|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|--|---------------------------|-------------------------------|--|
| * Prostate | Duct Epithelium | Cyst Hyperplasia | Focal, Multiple, Minimal Focal, Minimal |
| * Skin [Fibroma TGLS = 1-21] | Subcut Tiss | Fibroma | |
| * Testes [Adenoma TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------------|---------------|---------------------------|------------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 2-7] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 5-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| [Adenoma TGLS = 7-1] | | | |
| [Angiectasis TGLS = 7-1] | | | |
| * Prostate | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|----------------------|---------------------------------------|---|---|
| ANIMAL ID: 35 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 731 HISTO: 00-92349 |
|----------------------|---------------------------------------|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|--|-------------|--------------------|------------------------------|
| * Skin [Neural Crest Tumor TGLS = 6-23] | Subcut Tiss | Neural Crest Tumor | |
| * Spleen [Hyperplasia TGLS = 3-6, 4-21] | | Hyperplasia | Histiocytic, Focal, Moderate |
| * Thyroid Gland | Follicle | Degeneration | Cystic, Focal, Minimal |
| | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

| | | | |
|-------------------------------|---|--|--|
| PRIMARY CAUSE OF DEATH | - | | |
|-------------------------------|---|--|--|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|----------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Fibrosis | Mild |
| | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Lung | | Inflammation | Chronic, Focal, Mild |
| | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-5] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Pituitary Gland | Pars Distalis | Cyst | Minimal |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 36 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 731 HISTO: 00-92350 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|---------------------------|--------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 3-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | Epithelium | Hyperplasia | Focal, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| [Adenoma TGLS = 1-7] | | | |
| [Atrophy TGLS = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92351

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 511

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Pituitary Gland

OBSERVATIONS

| | | | |
|---|--------------|----------------------------------|----------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Kidney | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Congestion | Mild |
| | | Hyperplasia | Histiocytic, Minimal |
| [Congestion TGLS = 7-2] | | | |
| Lymph Node | Pancreatic | Angiectasis | Moderate |
| [Angiectasis TGLS = 6-23] | | | |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLS = 4-22] | | | |
| * Pituitary Gl | | | |
| Note: Pituitary gland: Autolytic changes apparently are artifact. | | | |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLS = 5-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 511

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88350

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|-------------------------------|---------------------------|
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Minimal Focal, Minimal |

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 423

DOSE: 0 MG/L

DISP: Accidentally Killed

HISTO: 99-87895

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-----------------------------|------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Small, Duodenum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Testes | * Thymus | * Trachea | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Kidney | * Spleen | * Thyroid Gland |
| * Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|--|----------------------|---------------------------|---------------------|
| * Heart | | Infiltration Cellular | Mixed Cell, Minimal |
| * Liver | | Hemorrhage | Focal, Moderate |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Mild |
| [Hemorrhage TGLS = 3-22] | | | |
| [Vacuolization Cytoplasmic TGLS = 4-6] | | | |
| * Lung | | Congestion | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Congestion TGLS = 5-2] | | | |
| [Infiltration Cellular TGLS = 5-2] | | | |
| Mesentery | | Hemorrhage | Marked |
| [Hemorrhage TGLS = 1-21] | | | |

PRIMARY CAUSE OF DEATH

- Liver Hemorrhage

CONTRIBUTORY CAUSE OF DEATH

- Mesentery Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Kidney | * Lung | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|----------------------|-------------------------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Leukemia Mononuclear | |
| | | Thrombosis | Moderate |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Moderate |
| | | [Leukemia Mononuclear TGLS = 5-6] | |
| | Lymph Node | Mediastinal | |
| | | Pancreatic | |
| | | [Leukemia Mononuclear TGLS = 6-3] | |
| | | [Leukemia Mononuclear TGLS = 3-7] | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| * Prostate | | Leukemia Mononuclear | |
| * Salivary Glands | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | | Necrosis | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89507

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6-1]

* Stomach, Glandular

Erosion

Minimal

* Testes

Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 4-7]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Tissue NOS

Mediastinum

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-90392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|--------------------------|----------------------------|----------|
| * Intestine Large, Cecum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Pituitary Gland | * Spleen | | |

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|-----------------------|
| Blood Vessel [Osteosarcoma TGLS = 4-21] | Aorta | Osteosarcoma | |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node [Hemorrhage TGLS = 2-7] | Pancreatic | Hemorrhage | Moderate |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Mineralization | Focal, Mild |
| * Skin [Keratoacanthoma TGLS = 5-22] | | Keratoacanthoma | |
| * Testes [Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | Follicular Cel | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|--|---|
| ANIMAL ID: 41 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Natural Death | DAY ON TEST: 705 HISTO: 00-90392 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Blood Vessel Aorta Osteosarcoma | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|---------------|-----------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Mediastinal | Ectasia | Mild |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Ectasia TGLS = 5-3] | | | |
| [Hyperplasia TGLS = 6-7] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Focal, Mild |
| * Pituitary Gland | | Angiectasis | Minimal |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| [Angiectasis TGLS = 4-1] | | | |
| * Preputial Gland | | Adenoma | |
| [Adenoma TGLS = 1-21] | | | |
| * Prostate | Epithelium | Hyperplasia | Focal, Mild |
| | | Inflammation | Chronic, Mild |
| * Stomach, Forestomach | Epithelium | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92352

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|----------------|---------------------|
| * Testes [Adenoma TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | Follicle | Degeneration | Cystic, Focal, Mild |
| | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * 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 |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|----------------------|--------------------------------|------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Fibrosis | Marked |
| | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Infarct | Multiple, Marked |
| | | Nephropathy | Minimal |
| [Infarct TGLS = 8-5] | | | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte, Midzonal | Necrosis | Moderate |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | Multiple |
| | | Leukemia Mononuclear | |
| [Alveolar/Bronchiolar Carcinoma TGLS = 5-2] | | | |
| [Leukemia Mononuclear TGLS = 5-2] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 10-22] | | | |
| Mesentery | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-23] | | | |
| * Pancreas | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-23] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92353

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|---------------------------|------------------|
| * Pituitary Gland | Pars Distalis | Cyst | Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | | Cyst Epithelial Inclusion | Moderate |
| [Cyst Epithelial Inclusion TGLS = 1-21] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Stomach, Forestomach | | Edema | Moderate |
| | | Leukemia Mononuclear | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| | | Ulcer | Moderate |
| [Ulcer TGLS = 12-24] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| [Adenoma TGLS = 6-7] | | | |
| [Atrophy TGLS = 7-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Carcinoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| [Carcinoma TGLS = 2-3] | | | |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|----------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Focal, Minimal |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Hepatodiaphragmatic Nodule TGLS = 1-21] | | | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 4-3] | | | |
| * Mammary Gland | | Dilatation | Minimal |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92354

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-1]

* Prostate

Epithelium

Hyperplasia

Focal, Minimal

Inflammation

Chronic, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 3-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 630

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89099

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | Peripheral Nerve | * Salivary Glands | * Seminal Vesicle |
| * Skin | Spinal Cord | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|----------------|---------------------------|------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Brain | | Compression | Focal, Marked |
| [Compression TGLS = 3-1] | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 2-7] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 630

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89099

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Focal, Minimal

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 706

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-90779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

| | | | |
|------------------------------|---------------|---------------------------|------------------------|
| * Adrenal Cortex | | Osteosarcoma | Metastatic (Bone) |
| * Bone | | Osteosarcoma | |
| [Osteosarcoma TGLS = 3-21] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Vacuolization Cytoplasmic | Diffuse, Moderate |
| [Osteosarcoma TGLS = 9-22] | | Osteosarcoma | Metastatic (Bone) |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Hemorrhage | Moderate |
| [Ectasia TGLS = 4-3] | | | |
| [Hemorrhage TGLS = 4-3] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Moderate |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:23
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|----------------------|---------------------------------------|--|---|
| ANIMAL ID: 46 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Natural Death | DAY ON TEST: 706 HISTO: 00-90779 |
|----------------------|---------------------------------------|--|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------------------|--------------------|----------------------|
| [Ulcer TGLS = 10-23] | | Ulcer | Mild |
| * Stomach, Glandular | | Erosion | Mild |
| [Erosion TGLS = 11-4] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| [Adenoma TGLS = 1-7] | | | |
| [Atrophy TGLS = 2-7] | | | |

| | |
|-------------------------------|---------------------|
| PRIMARY CAUSE OF DEATH | - Bone Osteosarcoma |
|-------------------------------|---------------------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|----------------------|---------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 4-1] | | | |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Moderate |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 2-22] | | | |
| * Mammary Gland | | Dilatation | Marked |
| [Dilatation TGLS = 1-23] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 3-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Marked |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92355

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|----------------|----------------|-------------------|
| * Prostate | | Inflammation | Chronic, Moderate |
| * Testes | Interstit Cell | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|---------------------------|-----------------------|
| * Adrenal Medulla [Pheochromocytoma Benign TGLS = 4-22] | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain [Compression TGLS = 6-1] | | Compression | Focal, Moderate |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | Pancreatic | Vacuolization Cytoplasmic | Focal, Moderate |
| Lymph Node [Hyperplasia TGLS = 8-7] | | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland [Dilatation TGLS = 1-8] | | Dilatation | Moderate |
| * Pituitary Gland [Adenoma TGLS = 7-1] | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Skin [Cyst Epithelial Inclusion TGLS = 5-21] | | Cyst Epithelial Inclusion | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 48 | TRT#: 1 DOSE: 0 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 731 HISTO: 00-92356 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Testes [Adenoma TGLS = 2-7] [Atrophy TGLS = 3-7] | Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Mild Minimal Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------|-----------------------|------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Intestine Small, Ileum | | Ulcer | Marked |
| [Ulcer TGLS = 6-22] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Pancreatic | Ectasia | Moderate |
| [Ectasia TGLS = 3-7] | | | |
| [Ectasia TGLS = 7-3] | | | |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| [Ectasia TGLS = 8-23] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92357

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|-------------------------------|----------------------------|
| * Testes [Adenoma TGLS = 4-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Moderate Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 699

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * 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 | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Eye | Retrobulbar | Leukemia Mononuclear | |
| * Heart | Endocardium, Valve | Inflammation | Chronic, Focal, Mild |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lung | | Inflammation | Chronic, Focal, Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-2] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-22] | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |
| * Preputial Gland | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 699

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90229

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------------------|----------------------|----------------|
| * Prostate | | Mineralization | Focal, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 693

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-90393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

OBSERVATIONS

| | | | |
|---------------------------------|------------------------|---------------------------|------------------------------|
| * Brain | | Glioma Malignant | |
| [Glioma Malignant TGLS = 9-1] | | | |
| * Islets, Pancreatic | | Adenoma | |
| | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Congestion | Moderate |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte, Periportal | Vacuolization Cytoplasmic | Mild |
| * Lung | | Inflammation | Suppurative, Focal, Moderate |
| [Inflammation TGLS = 7-2] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hemorrhage | Moderate |
| | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Mediastinal | Infiltration Cellular | Polymorphnuclr, Moderate |
| [Ectasia TGLS = 4-3] | | | |
| [Hemorrhage TGLS = 3-7] | | | |
| [Hemorrhage TGLS = 5-3] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 3

SEX: Male

DAY ON TEST: 693

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-90393

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------------|---|-------------------------------|---------------------------|
| * Pituitary Gland | Duct Pars Intermed | Cyst Adenoma | Focal, Multiple, Mild |
| [Angiectasis TGLS = 8-1] | Pars Distalis | Angiectasis Hyperplasia | Moderate Focal, Marked |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Amyloid Deposition | Moderate |
| * Testes | Lymph Follic Bilateral, Interstit Cell | Atrophy Adenoma | Moderate Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Brain Glioma Malignant | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 542

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|----------------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Pigmentation | Mild |
| | | [Hyperplasia TGLS = 3-7] | |
| | | [Pigmentation TGLS = 3-7] | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Mild |
| * Preputial Gland | | Adenoma | |
| | | [Adenoma TGLS = 1-8-1] | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | [Adenoma TGLS = 2-7] | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 3

SEX: Male

DAY ON TEST: 542

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88441

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

- Preputial Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|-------------|---------------------------|------------------------|
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| [Pheochromocytoma Benign TGLS = 3-21] | | | |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| [Ectasia TGLS = 4-3] | | | |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Atrophy | Focal, Moderate |
| [Adenoma TGLS = 5-22] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92358

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--|---|-----------------------------------|
| * Testes | Bilateral, Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| [Adenoma TGLS = 1-7] | | | |
| [Atrophy TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell C Cell Follicular Cel Follicle | Adenoma Hyperplasia Hypertrophy Mineralization | Mild Minimal Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 638

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------|---------------------|----------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone Marrow | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|-----------------------------------|-----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Heart | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Nose | | Foreign Body | Mild |
| | | Inflammation | Suppurative, Moderate |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Prostate | | Mineralization | Focal, Moderate |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thymus | | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 4-3] | | | |
| Tissue NOS | Mediastinum | Hemorrhage | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 638

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89508

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 660

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|-----------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | Renal Tubule | Adenoma | |
| | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Focal, Mild |
| | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | | [Angiectasis TGLS = 11-25] | |
| | | [Degeneration TGLS = 11-25] | |
| * Lung | Interstitialium | Edema | Moderate |
| | Mediastinum | Edema | Moderate |
| | | [Edema TGLS = 10-3] | |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| | | Hemorrhage | Mild |
| | | [Ectasia TGLS = 8-24] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 660

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89969

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 8-24]

Mesentery

Mesothelioma Malignant

[Mesothelioma Malignant TGLS = 5-7, 5-7-1, 5-10, 5-23]

Peritoneum

Mesothelioma Malignant

[Mesothelioma Malignant TGLS = 2-21, 3-22]

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

[Adenoma TGLS = 6-7, 6-7-1]

[Atrophy TGLS = 7-7-1]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

* Trachea

Peritrach Tiss

Edema

Moderate

PRIMARY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatocellular Adenoma | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Hepatocellular Adenoma TGLS = 7-24] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 5-7] | | | |
| [Hyperplasia TGLS = 9-3] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 4-23] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Adenoma | |
| [Adenoma TGLS = 2-22] | | | |
| * Skin | Subcut Tiss | Cyst | Marked |
| | Subcut Tiss | Inflammation | Chronic, Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:23
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|----------------------|---|---|---|
| ANIMAL ID: 56 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92359 |
|----------------------|---|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------------------|--------------------------|----------|
| [Cyst TGLS = 1-21] [Inflammation TGLS = 1-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell C Cell | Carcinoma Hyperplasia | Mild |
| [Carcinoma TGLS = 8-3] | | | |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|--|--------------------------------|---------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Islets, Pancreatic | | Hyperplasia | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hepatocellular Adenoma | |
| | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-6] | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | Alveolar Epith | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| | [Alveolar/Bronchiolar Carcinoma TGLS = 8-26] | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 4-24] | | |
| | [Leukemia Mononuclear TGLS = 7-23] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 9-25] | | |
| Mesentery | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|----------------------|---|---|---|
| ANIMAL ID: 57 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 729 HISTO: 00-92360 |
|----------------------|---|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|---|---------------------------|--------------------------|
| * Nose | Nasolacrim Dct | Inflammation | Moderate |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | | Cyst Epithelial Inclusion | Moderate |
| | | Inflammation | Chronic, Focal, Moderate |
| | [Cyst Epithelial Inclusion TGLS = 1-21] | | |
| | [Inflammation TGLS = 1-21] | | |
| * Spleen | | Angiectasis | Focal, Moderate |
| | | Fibrosis | Focal, Moderate |
| | | Leukemia Mononuclear | |
| | [Angiectasis TGLS = 2-22] | | |
| | [Fibrosis TGLS = 2-22] | | |
| | [Leukemia Mononuclear TGLS = 3-6] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 6-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 703

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 5-1] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| [Vacuolization Cytoplasmic TGLS = 3-6, 3-21] | | Vacuolization Cytoplasmic | Marked |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-1] | | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| [Hyperplasia TGLS = 8-4, 8-22] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 703

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90394

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59 TRT#: 3 SEX: Male DAY ON TEST: 729
DOSE: 125 MG/L DISP: Terminal Sacrifice HISTO: 00-92361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|------------------------|---------------------------|-----------------------|
| * Kidney | Cortex, Medulla | Atrophy | Marked |
| | | Hydronephrosis | Marked |
| | Pelvis, Transit Epithe | Hyperplasia | Mild |
| | | Nephropathy | Mild |
| <p>Note: Hydronephrosis (TGL 2-21) consists of marked dilatation of renal pelvis with atrophy of cortex and medulla, likely due to calculi in lower urinary tract. Note: Kidney lesions of atrophy and hydronephrosis refer to left kidney. Other kidney lesions refer to right kidney. [Atrophy TGLS = 2-21] [Hydronephrosis TGLS = 2-21]</p> | | | |
| * Liver | | Basophilic Focus | |
| | | Cholangiofibrosis | Minimal |
| | | Fibrosis | Focal, Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 4-3] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92361

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial GI

Note: One of pair is missing.

* Prostate

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

* Urinary Bladder

Calculus Micro Observation Only

Moderate

Transit Epithe

Hyperplasia

Diffuse, Mild

[Calculus Micro Observation Only TGLS = 3-22]

[Hyperplasia TGLS = 3-22]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|------------------------|---------------------------|---------------------------|------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | | Angiectasis | Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | | |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Bone | * Epididymis | * Esophagus |
| * 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, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|----------------------|---------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Eye | | Cataract | Moderate |
| [Cataract TGLS = 8-44] | Retina | Degeneration | Marked |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Vacuolization Cytoplasmic TGLS = 5-22] | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Focal, Moderate |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 4-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92363

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------------------|-------------------------------|--------------------------|
| * Pituitary Gland [Adenoma TGLS = 7-1] | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Skin | | Fibrosis | Focal, Moderate |
| | | Inflammation | Chronic, Focal, Moderate |
| [Fibrosis TGLS = 1-23] [Inflammation TGLS = 1-23] | | | |
| * Testes [Adenoma TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------|---------------------|---------------------------|----------------------|
| * Bone | * Esophagus | * Intestine Large, Rectum | * Islets, Pancreatic |
| * Mammary Gland | * Parathyroid Gland | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|---------------------------|---------------------------|----------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | Meninges | Leukemia Mononuclear | |
| * Epididymis | | Leukemia Mononuclear | |
| * Eye | Retrobulbar | Leukemia Mononuclear | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Intestine Small, Jejunum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Marked |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Inguinal | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |

Note: TGL 11-25 is axillary lymph node.

[Leukemia Mononuclear TGLS = 7-22]

[Leukemia Mononuclear TGLS = 11-25]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88972

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|------------------------------------|---|----------------------|
| [Leukemia Mononuclear TGLS = 6-21] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-23] | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Nose | Nasolacrim Dct | Inflammation | Mild |
| | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-7] | | | |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Preputial Gland | | Leukemia Mononuclear | |
| * Prostate | | Leukemia Mononuclear | |
| * Salivary Glands | | Leukemia Mononuclear | |
| * Seminal Vesicle | | Leukemia Mononuclear | |
| * Skin | Subcut Tiss | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Stomach, Forestomach | | Leukemia Mononuclear Ulcer | Mild |
| [Ulcer TGLS = 10-24] | | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-4, 9-4] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma Atrophy Leukemia Mononuclear | Multiple Moderate |
| [Adenoma TGLS = 1-7] | | | |
| [Atrophy TGLS = 2-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell C Cell Follicular Cel | Adenoma Hyperplasia Hypertrophy Leukemia Mononuclear | Mild Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 3

SEX: Male

DAY ON TEST: 619

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88972

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Mild

Tissue NOS

Mediastinum

Leukemia Mononuclear

Tooth

Note: Pulp of incisor teeth show abundant leukemic cells.

* Trachea

Leukemia Mononuclear

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90923

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------|---|---------------------------|--------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| | | Thrombosis | Marked |
| | [Thrombosis TGLS = 11-5-1] | | |
| * Islets, Pancreatic | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Marked |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLS = 8-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | Alveolar Epith | Metaplasia | Squamous, Moderate |
| | [Leukemia Mononuclear TGLS = 12-2, 12-25] | | |
| | [Metaplasia TGLS = 12-25] | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 63 | TRT#: 3 | SEX: Male | DAY ON TEST: 721 |
| | DOSE: 125 MG/L | DISP: Moribund Sacrifice | HISTO: 00-90923 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|----------------|----------------------|-----------------------|
| [Leukemia Mononuclear TGLS = 10-24] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |
| Penis | | Thrombosis | Mild |
| [Thrombosis TGLS = 1-23] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Spleen | | Angiectasis | Focal, Moderate |
| | | Fibrosis | Focal, Moderate |
| | | Leukemia Mononuclear | |
| [Angiectasis TGLS = 7-21] | | | |
| [Fibrosis TGLS = 7-21] | | | |
| [Leukemia Mononuclear TGLS = 6-22, 7-21] | | | |
| * Testes | Interstit Cell | Adenoma | Multiple |
| | Bilateral | Atrophy | Moderate |
| [Adenoma TGLS = 4-7] | | | |
| [Atrophy TGLS = 3-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-24] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 10-24] | | | |
| * Urinary Bladder | | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 652

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Brain | * Epididymis |
| * Esophagus | * 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 | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|-----------------------|-------------------|
| * Bone | Cranium, Periosteum | Fibrosarcoma | Metastatic (Skin) |
| * Bone Marrow | | Hyperplasia | Mild |
| * Eye | Retrobulbar | Fibrosarcoma | Metastatic (Skin) |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Congestion | Moderate |
| [Congestion TGLS = 2-2] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| Note: Invasion of fibrosarcoma (TGL 4-21) to retrobulbar tissues and cranium is visible on slides 12, 44, and 9-1. | | | |
| [Fibrosarcoma TGLS = 4-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 652

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89664

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 663

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- | | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

- | | | |
|---------------|----------|-----------------|
| * Bone Marrow | * Kidney | * Thyroid Gland |
|---------------|----------|-----------------|

OBSERVATIONS

- | | | | |
|-------------------------------------|-------------|---------------------------|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Adenoma | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Leukemia Mononuclear | |
| | Hepatocyte | Necrosis | Focal, Mild |
| | | Vacuolization Cytoplasmic | Diffuse, Mild |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-2] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-3] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 7-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 663

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89970

ORGAN AND ACCOUNTABLE SITE STATUS

* Seminal Vesicle

* Spleen

[Hemorrhage TGLS = 5-21]

[Leukemia Mononuclear TGLS = 4-6-1]

* Testes

[Adenoma TGLS = 3-7]

Tissue NOS

Bilateral, Interstit Cell

Mediastinum

Leukemia Mononuclear

Leukemia Mononuclear

Hemorrhage

Leukemia Mononuclear

Mild

Adenoma

Leukemia Mononuclear

Multiple

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 614

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-------------------|------------------------|---------------------|
| * Bone | * Epididymis | * Esophagus | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Stomach, Forestomach | * Thymus |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Eye | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney |
| * Nose | * Pancreas | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Spleen | * Stomach, Glandular | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|-------------------------------------|---------------------------|---------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Hemorrhage | Focal, Marked |
| | | Leukemia Mononuclear | |
| Note: Brain hemorrhage is in tissue on slide 1-1. | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 4-6] | Vacuolization Cytoplasmic | Moderate |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Skin | Subcut Tiss | Fibroma | |
| | | Ulcer | Moderate |
| | | [Fibroma TGLS = 1-21] | |
| | | [Ulcer TGLS = 5-22] | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | [Adenoma TGLS = 2-7-1] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 614

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88938

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Brain Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose | * Parathyroid Gland | Penis |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------|---------------------------|---------------------------|-------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 2-1] | | | |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:23

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|---------------------------|---------------------------|------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| | | Dilatation | Moderate |
| * Mammary Gland | | | |
| [Dilatation TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Pituitary Gland | | Angiectasis | Mild |
| [Angiectasis TGLS = 3-1] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-90959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Kidney * Thyroid Gland

OBSERVATIONS

| | | | |
|---|---------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | Compression | Focal, Mild |
| [Compression TGLS = 5-1] | | | |
| * Harderian Gland | | Hyperplasia | Histiocytic, Focal, Mild |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Leukemia Mononuclear | |
| [Vacuolization Cytoplasmic TGLS = 8-23] | | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| * Mammary Gland | | Carcinoma | |
| | | Dilatation | Moderate |
| [Carcinoma TGLS = 1-21] | | | |
| [Dilatation TGLS = 7-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 4-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 726

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-90959

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-1]

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Inflammation

Chronic, Mild

* Skin

Lip

Inflammation

Chronic, Focal, Moderate

* Spleen

Hematopoietic Cell Proliferation

Mild

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

Atrophy

Moderate

[Adenoma TGLS = 3-7]

[Atrophy TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|---------------------------|-------------------------|-------------------------|
| * Adrenal Cortex | Capsule | Fibrosis | Focal, Mild |
| Note: Area of fibrosis on capsule of one adrenal gland contains cells that may be accessory adrenal medullary tissue. | | | |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Moderate |
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 562

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|----------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Stomach, Glandular | * Thyroid Gland | | |

OBSERVATIONS

| | | | |
|---------------|--|----------------------------------|-------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Infiltration Cellular | Mixed Cell, Mild |
| * Kidney | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| | [Necrosis TGLS = 2-6] | | |
| | [Vacuolization Cytoplasmic TGLS = 2-6] | | |
| * Lung | | Squamous Cell Carcinoma | |
| | [Squamous Cell Carcinoma TGLS = 5-2] | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| Tissue NOS | Mediastinum | Squamous Cell Carcinoma | Metastatic (Lung) |
| | [Squamous Cell Carcinoma TGLS = 4-21] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 3

SEX: Male

DAY ON TEST: 562

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88510

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Lung Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| [Clear Cell Focus TGLS = 3-6] | | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92367

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes
[Adenoma TGLS = 1-7]

Bilateral, Interstit Cell

Mineralization
Adenoma

Focal, Mild
Multiple

* Thyroid Gland

C Cell
C Cell
Follicular Cel
Follicle

Adenoma
Hyperplasia
Hypertrophy
Mineralization

Moderate
Minimal
Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------|-----------------------------------|-----------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Brain | | Compression | Focal, Moderate |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Eosinophilic Focus | |
| | Bile Duct | Hepatocellular Adenoma | |
| | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-2] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-5] | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Hemorrhage TGLS = 9-1] | | | |
| * Preputial Gland | | Carcinoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92368

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 3-23]

* Skin

Subcut Tiss

Basal Cell Carcinoma

Fibroma

[Basal Cell Carcinoma TGLS = 1-21]

[Fibroma TGLS = 2-22]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5-24]

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 4-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Kidney | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|---------------------------|--|---------------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule Vacuolization Cytoplasmic | Minimal Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Islets, Pancreatic | | Carcinoma | |
| [Carcinoma TGLS = 4-21] | | | |
| * Liver | Bile Duct | Basophilic Focus Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular Vacuolization Cytoplasmic | Mixed Cell, Mild Focal, Mild |
| * Lung | Mediastinal | Infiltration Cellular Hemorrhage | Mixed Cell, Mild Mild |
| Lymph Node | | | |
| [Hemorrhage TGLS = 3-3] | | | |
| * Nose | Nasolacrim Dct | Inflammation | Minimal |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Moderate |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92369

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * 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 | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------------------------|-----------|--------------------------------|---------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | | Cataract | Mild |
| | Retina | Degeneration | Moderate |
| | | Exudate | Moderate |
| [Cataract TGLS = 5-44] | | | |
| [Exudate TGLS = 5-44] | | | |
| * Kidney | | Cyst | Multiple, Mild |
| | | Metaplasia | Lipocyte, Focal, Moderate |
| | | Nephropathy | Mild |
| [Cyst TGLS = 4-5, 4-22] | | | |
| [Metaplasia TGLS = 4-5, 4-22] | | | |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Lung | | Alveolar/Bronchiolar Carcinoma | |
| | | Leukemia Mononuclear | |

Note: Part of lung carcinoma (TGL 6-21) shows squamous differentiation.

[Alveolar/Bronchiolar Carcinoma TGLS = 6-21]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92370

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------------------|----------------------|-------------------|
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pituitary Gland | Rathkes Cleft | Hyperplasia | Cystic, Mild |
| * Preputial Gland | | Adenoma | |
| | | Inflammation | Chronic, Moderate |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|----------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Hepatodiaphragmatic Nodule TGLS = 4-22] | | |
| * Lung | | Infiltration Cellular | Mixed Cell, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| | [Inflammation TGLS = 2-8] | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLS = 1-21] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 3-7] | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 76 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92371 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Mild |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|-------------|---------------------------|--------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone | Cranium | Hyperostosis | Mild |
| [Hyperostosis TGLS = 7-23] | | | |
| * Bone Marrow | | Angiectasis | Mild |
| [Angiectasis TGLS = 9-24] | | Hyperplasia | Minimal |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hemangiosarcoma | Moderate |
| | | Hyperplasia | Mixed Cell, Mild |
| | | Infiltration Cellular | |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Hemangiosarcoma TGLS = 3-21, 4-22] | | | |
| * Lung | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| [Ectasia TGLS = 5-3] | | | |
| Mesentery | | Hemangiosarcoma | Metastatic (Liver) |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92372

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------------|--------------------------------|------------------------------------|--|
| [Hemangiosarcoma TGLS = 3-21] | | | |
| * Pancreas | Acinus Duct | Atrophy Cyst Hemangiosarcoma | Focal, Minimal Focal, Multiple, Minimal Metastatic (Liver) |
| [Hemangiosarcoma TGLS = 3-21] | | | |
| * Pituitary Gland | Pars Distalis Pars Distalis | Adenoma Hemorrhage | Focal, Mild |
| [Adenoma TGLS = 8-1] | | | |
| [Hemorrhage TGLS = 8-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 574

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|---------------------------|-------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | Centrilobular | Congestion | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-2] | | |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |
| | Pancreatic | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 6-7] | | |
| | [Leukemia Mononuclear TGLS = 6-7] | | |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 3

SEX: Male

DAY ON TEST: 574

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88784

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 3-5]

[Leukemia Mononuclear TGLS = 3-5]

| | | | |
|-------------------|---------------|------------------------|-----------------|
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Spleen | | Leukemia Mononuclear | |

[Leukemia Mononuclear TGLS = 2-6]

| | | | |
|------------------------|------------|-------------|-------------|
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| * Stomach, Glandular | | Erosion | Mild |
| | Epithelium | Hyperplasia | Focal, Mild |

[Erosion TGLS = 7-4, 7-21]

| | | | |
|-----------------|---------------------------|----------------|----------------|
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thymus | | Cyst | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|----------------------|------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Preputial Gland | | Adenoma | |
| | | Inflammation | Chronic, Mild |
| [Adenoma TGLS = 1-21] | | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 79 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 731 HISTO: 00-92373 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 668

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------------|-----------------------|
| * Adrenal Medulla | | Ganglioneuroma | |
| Note: Ganglioneuroma is judged to be malignant (TGL 6). [Ganglioneuroma TGLS = 6-21, 6-22, 6-23, 6-23-1] | | | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 5-5] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 4-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| [Adenoma TGLS = 2-7] | | | |
| [Atrophy TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Adrenal Medulla Ganglioneuroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 668

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89992

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|------------------------------|------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | [Alveolar/Bronchiolar Adenoma TGLS = 4-23] | | |
| Mesentery | | Carcinoma | Metastatic (Pancreas) |
| * Pancreas | Acinus | Carcinoma | |
| | [Carcinoma TGLS = 2-21, 3-22, 5-24] | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Spleen | Capsule | Carcinoma | Metastatic (Pancreas) |
| | [Carcinoma TGLS = 3-22] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 1-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 81 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 729 HISTO: 00-92374 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------|---------------|---------------------------|-------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| [Ectasia TGLS = 5-3] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | Acinus | Hyperplasia | Focal, Mild |
| [Hyperplasia TGLS = 6-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| [Inflammation TGLS = 7-7-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92375

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|-------------------------------|------------------------|
| * Testes [Adenoma TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 605

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88904

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * 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, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------------|---------------------|----------------------------------|------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Epididymis | | Inflammation | Chronic, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| * Lung | | Hyperplasia | Histiocytic, Focal, Minimal |
| Lymph Node | Renal | Hyperplasia | Lymphoid, Moderate |
| | Renal | Hyperplasia | Histiocytic, Focal, Moderate |
| | | | |
| [Hyperplasia TGLS = 4-23] | | | |
| [Hyperplasia TGLS = 4-23] | | | |
| * Skin | Subcut Tiss | Fibroma | Multiple |
| | | Fibrosis | Focal, Moderate |
| | Artery, Subcut Tiss | Thrombosis | Moderate |
| | | | |
| [Fibroma TGLS = 2-22, 5-24] | | | |
| [Fibrosis TGLS = 1-21] | | | |
| [Thrombosis TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 605

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88904

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|--------------------|-------------------------------|------------------------|
| * Testes [Adenoma TGLS = 3-7] | Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 699

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland | * Nose |
| * Parathyroid Gland | Peripheral Nerve | * Prostate | * Salivary Glands |
| * Seminal Vesicle | Spinal Cord | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|------------------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Diffuse, Moderate |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Harderian Gland | | Inflammation | Chronic, Focal, Moderate |
| [Inflammation TGLS = 12-24] | | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Mild |
| [Pigmentation TGLS = 10-5] | | | |
| * Liver | Portal | Fibrosis | Moderate |
| | Portal | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte, Periportal | Necrosis | Moderate |
| | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Moderate |
| [Fibrosis TGLS = 7-6] | | | |
| [Hemorrhage TGLS = 7-6] | | | |
| [Leukemia Mononuclear TGLS = 7-6] | | | |
| [Necrosis TGLS = 7-6] | | | |
| [Vacuolization Cytoplasmic TGLS = 7-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|----------------------|---|---|---|
| ANIMAL ID: 84 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Moribund Sacrifice | DAY ON TEST: 699 HISTO: 00-90230 |
|----------------------|---|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|---------------------------------------|------------------------|-----------------------|
| | Mediastinal | Inflammation | Suppurative, Moderate |
| | Mediastinal | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 5-26] | | |
| | [Inflammation TGLS = 11-23] | | |
| | [Leukemia Mononuclear TGLS = 11-23] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 9-5] | | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Focal, Moderate |
| | [Necrosis TGLS = 8-22] | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Moderate |
| * Skin | Subcut Tiss | Lipoma | |
| | [Lipoma TGLS = 1-21] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 4-6] | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Focal, Mild |
| | | Leukemia Mononuclear | |
| | | Ulcer | Mild |
| | [Hyperplasia TGLS = 11-25] | | |
| | [Inflammation TGLS = 11-25] | | |
| | [Ulcer TGLS = 11-25] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 6-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 555

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|-----------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Congestion | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| Lymph Node | Pancreatic | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 2-7] | | | |
| [Hyperplasia TGLS = 2-7] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Moderate |
| | | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 4-5] | | | |
| [Hyperplasia TGLS = 4-5] | | | |
| * Pituitary Gland | | Hemorrhage | Marked |
| [Hemorrhage TGLS = 7-1] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 3-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:24
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|----------------------|---|--|---|
| ANIMAL ID: 85 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Natural Death | DAY ON TEST: 555 HISTO: 00-88511 |
|----------------------|---|--|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------|----------------------------------|-------------------------------|----------------------------|
| * Stomach, Glandular | | Erosion Pigmentation | Mild Focal, Mild |
| [Erosion TGLS = 8-22] | | | |
| [Pigmentation TGLS = 8-22] | | | |
| * Testes | Interstit Cell Interstit Cell | Adenoma Hyperplasia | Focal, Mild |
| * Thymus | | Hemorrhage | Mild |
| [Hemorrhage TGLS = 5-3] | | | |
| * Thyroid Gland | Follicular Cel Follicle | Hypertrophy Mineralization | Moderate Focal, Minimal |
| [Hypertrophy TGLS = 6-3] | | | |
| Tooth | Peridont Tiss | Hyperplasia | Squamous, Moderate |
| PRIMARY CAUSE OF DEATH | - Pituitary Gland Hemorrhage | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------------------------|---------------|-------------------------|--------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Moderate |
| [Nephropathy TGLS = 3-5] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 5-6] | | | |
| [Clear Cell Focus TGLS = 5-6] | | | |
| [Mixed Cell Focus TGLS = 5-6] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Preputial Gland | | Adenoma | |
| * Prostate | Epithelium | Hyperplasia | Focal, Mild |
| | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92376

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 6-7-1]

[Inflammation TGLS = 6-7-1]

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------------------|---------------------------|------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Brain | Cerebrum, Ventricle | Hydrocephalus | Mild |
| Note: Deformity of cerebrum consists of dilatation of fourth ventricle (TGL 4-1). [Hydrocephalus TGLS = 4-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Leukemia Mononuclear | |
| * Skin | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| [Adenoma TGLS = 2-7] [Atrophy TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 87 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 729 HISTO: 00-92377 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Nose | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------------------|------------|-----------------------------------|-----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Intestine Large, Cecum | | Edema | Moderate |
| [Edema TGLS = 11-4] | | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Eosinophilic Focus TGLS = 14-22] | | | |
| [Leukemia Mononuclear TGLS = 9-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 12-2] | | | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Ectasia TGLS = 8-23] | | | |
| [Hyperplasia TGLS = 8-23] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90780

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|------------------------------|------------------------|------------------|
| [Leukemia Mononuclear TGLS = 10-5] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 15-24] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| [Atrophy TGLS = 7-7] | | | |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 2-8] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 5-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------------|---------------------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| [Hyperplasia TGLS = 9-4, 9-22] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90781

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Minimal

Tongue

Squamous Cell Carcinoma

[Squamous Cell Carcinoma TGLS = 2-21]

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|----------------|----------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | Renal Tubule | Hyperplasia | Focal, Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Ectasia TGLS = 6-7] | | | |
| [Hyperplasia TGLS = 6-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 5-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92378

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------|---------------------------|----------------------|--------------------------|
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| [Fibrosarcoma TGLS = 1-21] | | | |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Mild |
| [Adenoma TGLS = 2-7] | | | |
| [Atrophy TGLS = 3-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 672

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|----------------|---------------------------|-------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Diffuse, Marked |
| | | Dilatation | Moderate |
| * Mammary Gland | | | |
| [Dilatation TGLS = 1-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 3-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Stomach, Forestomach | | Edema | Moderate |
| | Epithelium | Hyperplasia | Mild |
| | | Ulcer | Moderate |
| [Ulcer TGLS = 5-4] | | | |
| * Testes | Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 3

SEX: Male

DAY ON TEST: 672

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90129

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 582

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|---------------------|------------------------|-------------------|
| * Bone | * Epididymis | * Esophagus | * Harderian Gland |
| * Islets, Pancreatic | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Mammary Gland |
| * Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|--------------------------|---|---|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage Leukemia Mononuclear | Focal, Moderate |
| | [Hemorrhage TGLS = 7-1, 8-1] | | |
| | [Leukemia Mononuclear TGLS = 7-1, 8-1] | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear Vacuolization Cytoplasmic | Mild |
| | [Leukemia Mononuclear TGLS = 2-6, 6-22] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-2] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-5, 5-21] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 582

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88821

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---------------------------|-------------------------------------|-----------------------|
| Mesentery | | Leukemia Mononuclear | |
| * Nose | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Mild |
| | | Leukemia Mononuclear | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Seminal Vesicle | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 1-6] | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Leukemia Mononuclear | |
| | | [Adenoma TGLS = 4-7] | |
| * Thymus | | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|----------------|----------------------------|-----------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Hepatodiaphragmatic Nodule TGLS = 4-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Preputial Gland | | Adenoma | |
| [Adenoma TGLS = 1-22] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Testes | Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| [Adenoma TGLS = 3-7] | | | |
| [Atrophy TGLS = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92379

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|----------------|-----------------------------------|-----------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Harderian GI | | | |
| Note: Yellow-brown pigment deposition in Harderian gland acini or ducts is a normal condition. | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Diffuse, Mild |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| Lymph Node | Mediastinal | Carcinoma | Metastatic (Zymbal'S Gland) |
| | Mediastinal | Ectasia | Moderate |
| [Carcinoma TGLS = 4-21] | | | |
| [Ectasia TGLS = 7-24] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Mild |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma TGLS = 6-23] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:24
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|----------------------|---|---|---|
| ANIMAL ID: 94 | TRT#: 3 DOSE: 125 MG/L | SEX: Male DISP: Moribund Sacrifice | DAY ON TEST: 714 HISTO: 00-90782 |
|----------------------|---|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|--|--------------------|-------------------------------|-----------------------------|
| | | Inflammation Ulcer | Chronic, Mild Mild |
| [Ulcer TGLS = 10-26] | | | |
| * Testes | Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| [Adenoma TGLS = 2-7] | | | |
| [Atrophy TGLS = 3-7] | | | |
| * Thymus | | Carcinoma | Metastatic (Zymbal'S Gland) |
| [Carcinoma TGLS = 4-21] | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| Tissue NOS | Mediastinum | Carcinoma | Metastatic (Zymbal'S Gland) |
| [Carcinoma TGLS = 4-21] | | | |
| Zymbal's Gland | | Carcinoma | |
| [Carcinoma TGLS = 5-22, 5-22-1] | | | |

| | |
|-------------------------------|----------------------------|
| PRIMARY CAUSE OF DEATH | - Zymbal's Gland Carcinoma |
|-------------------------------|----------------------------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|-----------------------|------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| [Clear Cell Focus TGLS = 4-6] | | | |
| * Preputial Gland | | Degeneration | Cystic, Moderate |
| | | Inflammation | Chronic, Mild |
| [Degeneration TGLS = 1-8] | | | |
| [Inflammation TGLS = 1-8] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92380

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------|---------------------------|---------------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Mammary Gland | | Dilatation | Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| [Adenoma TGLS = 2-7] | | | |
| [Atrophy TGLS = 3-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92381

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Carcinoma

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|-----------------------------------|-------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Clear Cell Focus TGLS = 3-6] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Cyst | Moderate |
| [Adenoma TGLS = 4-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92382

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|----------------|-----------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Histiocytic Sarcoma | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 5-6] | | | |
| [Clear Cell Focus TGLS = 5-6] | | | |
| [Histiocytic Sarcoma TGLS = 5-6] | | | |
| [Mixed Cell Focus TGLS = 5-6] | | | |
| * Lung | | Hemorrhage | Focal, Mild |
| | Alveolar Epith | Hyperplasia | Focal, Moderate |
| [Hemorrhage TGLS = 8-25] | | | |
| [Hyperplasia TGLS = 8-25] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| [Ectasia TGLS = 9-26] | | | |
| Mesentery | | Histiocytic Sarcoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92383

ORGAN AND ACCOUNTABLE SITE STATUS

[Histiocytic Sarcoma TGLS = 7-24]

| | | | |
|--|---------------------------|----------------------|------------------|
| * Pancreas | Acinus | Adenoma | Multiple |
| [Adenoma TGLS = 4-7-1, 4-27] | | | |
| * Pituitary Gland | | Angiectasis | Moderate |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Skin | | Basal Cell Carcinoma | Multiple |
| | Subcut Tiss | Histiocytic Sarcoma | |
| [Basal Cell Carcinoma TGLS = 1-21, 2-22] | | | |
| [Histiocytic Sarcoma TGLS = 3-23] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 6-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|--------------------------|----------------------------|--------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

| | | | |
|-----------------------------|--------------------------------------|-------------------------------|--------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Ulcer | Moderate |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Infarct | Multiple, Moderate |
| | | Nephropathy | Mild |
| | [Infarct TGLS = 7-5, 7-22] | | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLS = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 11-2] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 9-5] | | |
| Mesentery | | Angiectasis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 3

SEX: Male

DAY ON TEST: 695

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90395

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|------------------------------|--------------------------------------|---|
| [Angiectasis TGLS = 8-7] | | | |
| * Preputial Gland | | Cyst Degeneration | Mild Cystic, Moderate |
| [Degeneration TGLS = 1-8] | | | |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma TGLS = 2-21] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-23] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia Inflammation Ulcer | Moderate Chronic, Moderate Moderate |
| [Ulcer TGLS = 10-4, 10-24] | | | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|---------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Lipoma | |
| | | Nephropathy | Mild |
| [Lipoma TGLS = 4-22] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 3-6] | | | |
| [Clear Cell Focus TGLS = 3-6] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Minimal |
| Note: Cystic pancreatic duct is in pancreatic tissue that is on slide 4. | | | |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Mild |
| * Preputial GI | | | |
| Note: One of pair is missing. | | | |
| * Prostate | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92384

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Lumens of prostatic acini contain abundant cellular debris.

| | | | |
|------------------------------------|---------------------------|-------------------------------|------------------------|
| * Skin [Fibroma TGLS = 1-21] | Subcut Tiss | Fibroma | |
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 721

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------------------|---|-------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Moderate |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | | [Leukemia Mononuclear TGLS = 14-6] | |
| * Lung | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 12-2] | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 11-27] | |
| | | [Leukemia Mononuclear TGLS = 10-3, 10-26] | |
| | | [Leukemia Mononuclear TGLS = 7-24] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 721

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90924

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------|--|-------------------------|
| * Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 8-25] | | Leukemia Mononuclear | |
| * Mammary Gland Mesentery | | Dilatation Leukemia Mononuclear | Mild |
| * Pancreas Acinus | | Atrophy Leukemia Mononuclear | Focal, Mild |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Preputial Gland [Carcinoma TGLS = 2-22] | | Carcinoma | |
| * Prostate | | Leukemia Mononuclear | |
| * Seminal Vesicle | | Leukemia Mononuclear | |
| * Skin Subcut Tiss [Hyperkeratosis TGLS = 1-21] | | Hyperkeratosis Leukemia Mononuclear | Focal, Moderate |
| * Spleen [Leukemia Mononuclear TGLS = 4-23, 5-28] | | Leukemia Mononuclear | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| * Stomach, Glandular [Erosion TGLS = 13-4, 13-29] | | Erosion Leukemia Mononuclear | Mild |
| * Testes Bilateral, Interstit Cell [Adenoma TGLS = 3-7] | | Adenoma Leukemia Mononuclear | Multiple |
| * Thymus [Leukemia Mononuclear TGLS = 9-3] | | Leukemia Mononuclear | |
| * Thyroid Gland C Cell Follicle | | Hyperplasia Mineralization | Mild Focal, Moderate |
| Tissue NOS Mediastinum | | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 660

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

| | | | |
|----------------------------|------------------------|-----------------------------------|-----------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte, Periportal | Vacuolization Cytoplasmic | Mild |
| Lymph Node | Mediastinal | Ectasia | Marked |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | | | |
| | | | |
| [Ectasia TGLS = 6-22] | | | |
| [Hyperplasia TGLS = 3-7] | | | |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| | | | |
| [Hemorrhage TGLS = 5-5] | | | |
| Mesentery | Fat | Necrosis | Focal, Minimal |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 660

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89978

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|----------------------------------|----------------|
| * Spleen [Hematopoietic Cell Proliferation TGLS = 4-6] | | Hematopoietic Cell Proliferation | Mild |
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| Zymbal's Gland [Carcinoma TGLS = 7-21, 7-21-1] | | Carcinoma | |

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 714

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Lung |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|-----------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 7-1] | | | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| [Vacuolization Cytoplasmic TGLS = 9-6, 9-21] | | Vacuolization Cytoplasmic | Moderate |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 6-5] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 8-22] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| [Inflammation TGLS = 5-7-1] | | | |
| * Spleen | | Fibrosis | Focal, Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:24
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 103

TRT#: 5
DOSE: 1000MG/L

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 714
HISTO: 00-90783

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---|----------------|-----------------|
| [Adenoma TGLS = 2-7] [Atrophy TGLS = 3-7] | | Atrophy | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Moderate |
| * Urinary Bladder [Hemorrhage TGLS = 4-8] | | Hemorrhage | Mild |
| PRIMARY CAUSE OF DEATH | - Pituitary Gland Pars Distalis Adenoma | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 647

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Parathyroid Gland | Peripheral Nerve | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | Spinal Cord |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

| |
|----------------------------|
| * Intestine Small, Jejunum |
|----------------------------|

OBSERVATIONS

| | | | |
|-------------------------------|---------------------------|-----------------------------------|---------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 5-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-1] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| [Inflammation TGLS = 4-7-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 647

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89665

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------|---|--|-----------------------------|
| | | Inflammation | Focal, Moderate |
| [Hyperplasia TGLS = 7-4] | | | |
| [Inflammation TGLS = 7-4] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| [Adenoma TGLS = 2-7] | | | |
| [Atrophy TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Mild Mild Focal, Mild |
| PRIMARY CAUSE OF DEATH | - Pituitary Gland Pars Distalis Adenoma | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------------------|-----------------------------------|-----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Cytoplasmic Alteration | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Inflammation | Chronic, Focal, Mild |
| | | [Inflammation TGLS = 4-2] | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Adenoma | |
| | | [Adenoma TGLS = 1-21] | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | [Adenoma TGLS = 2-7] | |
| * Thymus | | Hemorrhage | Mild |
| | | Hyperplasia | Lymphoid, Moderate |
| | | [Hemorrhage TGLS = 3-3] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92385

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-3]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 209

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 99-86261

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 | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|----------------|----------------------------------|------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Deep Cervical | Hemorrhage | Moderate |
| | Renal | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 6-23] | | | |
| [Hemorrhage TGLS = 4-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Skin | Subcut Tiss | Sarcoma | |
| [Sarcoma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLS = 5-6] | | | |
| * Thymus | | Hemorrhage | Mild |
| | | Hyperplasia | Lymphoid, Mild |
| [Hemorrhage TGLS = 3-3] | | | |
| * Thyroid Gland | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 561

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|----------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|--------------------------|----------------------------|-----------------|
| * Intestine Large, Cecum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Thyroid Gland |
|--------------------------|--------------------------|----------------------------|-----------------|

OBSERVATIONS

| | | | |
|--|---------------------------|-------------------------------|----------------|
| * Adren Cortex | | | |
| Note: One adrenal gland is missing. | | | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-5] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 9-6] | | | |
| [Vacuolization Cytoplasmic TGLS = 9-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-2] | | | |
| Lymph Node | Pancreatic | Hemorrhage | Mild |
| | Mediastinal | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|----------------------------|-------------------------|
| ANIMAL ID: 107 | TRT#: 5 | SEX: Male | DAY ON TEST: 561 |
| | DOSE: 1000MG/L | DISP: Natural Death | HISTO: 00-88512 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|--------------------------------------|----------------------|----------------|
| | Pancreatic | Leukemia Mononuclear | |
| | Pancreatic | Pigmentation | Moderate |
| | [Hemorrhage TGLS = 4-7] | | |
| | [Leukemia Mononuclear TGLS = 4-7] | | |
| | [Leukemia Mononuclear TGLS = 6-3] | | |
| | [Pigmentation TGLS = 4-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Schwannoma Malignant | |
| | [Schwannoma Malignant TGLS = 1-21] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-6] | | |
| * Stomach, Forestomach | | Ulcer | Mild |
| | [Ulcer TGLS = 10-22] | | |
| * Stomach, Glandular | | Erosion | Minimal |
| | [Erosion TGLS = 10-22] | Pigmentation | Focal, Minimal |
| | [Pigmentation TGLS = 10-22] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 3-7] | | |
| * Thymus | | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-90231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|--------------------------|--------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Heart | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Islets, Pancreatic | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Trachea | * Urinary Bladder | | |

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|---------------------------|---------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Brain | | Hemorrhage | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Lung | Mediastinum | Edema | Moderate |
| | | Leukemia Mononuclear | |
| [Edema TGLS = 7-3] | | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| * Mammary Gland | | Hyperplasia | Moderate |
| [Hyperplasia TGLS = 8-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-90231

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------------------|-----------------------------|--------------------------------|
| * Preputial Gland | | Adenoma | |
| * Prostate | Epithelium | Hyperplasia Inflammation | Focal, Mild Chronic, Marked |
| [Inflammation TGLS = 9-7-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| | | Ulcer | Minimal |
| * Stomach, Glandular | | Erosion | Mild |
| [Erosion TGLS = 12-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| [Adenoma TGLS = 5-7] | | | |
| [Atrophy TGLS = 4-7] | | | |
| * Thymus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92386

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Parathyroid Gland | * Pituitary Gland |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|-------------|---------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Hemorrhage | Focal, Mild |
| [Hemorrhage TGLS = 8-23] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 7-3] | | | |
| [Hyperplasia TGLS = 5-7] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 4-21] | | | |
| * Nose | | Inflammation | Suppurative, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Preputial Gland | | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92386

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]

| | | | |
|-------------------|----------------|----------------|-------------------|
| * Prostate | | Inflammation | Chronic, Moderate |
| * Salivary Glands | | Fibrosarcoma | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 3 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------|---------------------------|---------------------------|---------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| [Ectasia TGLS = 3-7] | | | |
| * Pancreas | Duct | Cyst | Focal, Moderate |
| [Cyst TGLS = 2-7] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92387

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|-----------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Harderian GI | | | |
| Note: Some of the Harderian gland acini show moderate dilatation, with no equivalent diagnostic term available in LDAS 2 dictionary. | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| [Ectasia TGLS = 3-3] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Preputial Gland | | Cyst | Mild |
| | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92388

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 566

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|----------------------|--------------------------|
| * Adrenal Medulla | Blood Vessel | * Bone | * Epididymis |
| * Esophagus | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|-----------------|--------------------------|--------------------------|----------------------------|
| * Eye | * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|------------------------------|------------------------|-----------------------|-------------------|
| * Adrenal Cortex | | Necrosis | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 10-1] | | | |
| * Kidney | Pelvis, Transit Epithe | Hyperplasia | Mild |
| [Hyperplasia TGLS = 6-5] | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Congestion | Moderate |
| [Congestion TGLS = 8-2] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 2-21] | | Hyperplasia | Mild |
| [Hyperplasia TGLS = 1-8] | | | |
| Mesentery | | Hemorrhage | Moderate |
| | | Inflammation | Chronic, Moderate |
| | Fat | Necrosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 566

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88785

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------|----------------|--------------|-----------------|
| [Hemorrhage TGLS = 5-22] | | | |
| [Inflammation TGLS = 5-22] | | | |
| [Necrosis TGLS = 5-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 9-1] | | | |
| * Prostate | | Inflammation | Chronic, Marked |
| [Inflammation TGLS = 4-7-1] | | | |
| * Spleen | | Pigmentation | Focal, Moderate |
| * Testes | Interstit Cell | Hyperplasia | Focal, Mild |
| [Hyperplasia TGLS = 11-7] | | | |
| * Thymus | | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 7-3] | | | |
| * Urinary Bladder | | Hemorrhage | Mild |
| | | Inflammation | Chronic, Marked |
| [Hemorrhage TGLS = 3-7] | | | |

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|--|----------------|----------------------------|------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| [Hepatodiaphragmatic Nodule TGLS = 2-21] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 4-3] | | | |
| [Hyperplasia TGLS = 5-7] | | | |
| * Nose | Olfactory Epi | Hyperplasia | Focal, Mild |
| | Respirat Epith | Hyperplasia | Focal, Moderate |
| | | Inflammation | Suppurative, Moderate |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92389

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---------------------------|----------------|------------------|
| * Prostate | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-3] | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * 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, Mesenteric |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------------|---------------|------------------------------|-----------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Clear Cell Focus TGLS = 4-22] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| [Hyperplasia TGLS = 6-3] | | | |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Rathkes Cleft | Hemorrhage | Moderate |
| [Adenoma TGLS = 5-1] | | | |
| [Hemorrhage TGLS = 5-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92390

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|----------------|-------------|
| * Skin [Fibroma TGLS = 2-21] | Subcut Tiss | Fibroma | |
| * Testes [Adenoma TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 667

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| Lacrimal Gland | * Mammary Gland | * Nose | * Parathyroid Gland |
| Peripheral Nerve | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | Spinal Cord | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|-------------------------------|-------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLS = 7-21] | | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Minimal |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Moderate |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Marked |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 667

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89979

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|--------------------------------------|--|-----------------------------------|
| * Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 8-5] | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen [Leukemia Mononuclear TGLS = 5-22] | | Leukemia Mononuclear | |
| * Testes [Adenoma TGLS = 2-7] [Atrophy TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Mild Minimal Focal, Minimal |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 703

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|-------------|----------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Focal, Mild |
| | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Nose | | Foreign Body | Mild |
| | | Inflammation | Suppurative, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | | Angiectasis | Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Skin | Subcut Tiss | Fibroma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 703

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90784

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21, 2-22]

* Spleen

Angiectasis

Focal, Moderate

Fibrosis

Focal, Moderate

Leukemia Mononuclear

[Angiectasis TGLS = 4-23]

[Fibrosis TGLS = 4-23]

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 5-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Mild

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 695

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Nose | * Parathyroid Gland | Peripheral Nerve |
| * Salivary Glands | * Seminal Vesicle | * Skin | Spinal Cord |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|-----------------------|-----------------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 3-1] | | | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Clear Cell Focus TGLS = 6-6] | | | |
| Lymph Node | Mediastinal | Ectasia | Mild |
| [Ectasia TGLS = 7-3] | | | |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| [Ectasia TGLS = 2-5] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Interstit Cell | Adenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 695

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90396

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]
* Thyroid Gland

C Cell
C Cell
Follicle

Atrophy
Adenoma
Hyperplasia
Mineralization

Moderate
Mild
Focal, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | Skeletal Muscle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---|---------------------------|---------------------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| [Hyperplasia TGLS = 3-2] | | | |
| * Skin | Subcut Tiss | Cyst Epithelial Inclusion | Moderate |
| | | Cyst Epithelial Inclusion | Mild |
| | Subcut Tiss | Inflammation | Suppurative, Chronic, Focal, Moderate |
| Note: Subcutaneous diagnoses of cyst and inflammation describe one lesion, which is lateral to the nose. | | | |
| | [Cyst Epithelial Inclusion TGLS = 1-21] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92391

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-90130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|--------------------------|------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Heart | * Intestine Small, Duodenum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Thyroid Gland | | |

OBSERVATIONS

| | | | |
|------------------|--|----------------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | | Cataract | Moderate |
| | Retina | Degeneration | Moderate |
| * Kidney | | Mesenchymal Tumor Benign | |
| | | Nephropathy | Moderate |
| | [Mesenchymal Tumor Benign TGLS = 3-21, 3-22] | | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | | Congestion | Moderate |
| | Alveolus | Edema | Focal, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Prostate | | Inflammation | Chronic, Moderate |
| | [Inflammation TGLS = 2-7-1] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 1-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 673

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-90130

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Angiectasis

Moderate

[Angiectasis TGLS = 4-3]

PRIMARY CAUSE OF DEATH

- Kidney Mesenchymal Tumor Benign

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Moderate |
| * Bone Marrow | | Hyperplasia | Mild |
| * Eye | Cornea | Inflammation | Chronic, Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Hemorrhage | Moderate |
| * Lymph Node, Mesenteric [Hemorrhage TGLS = 3-5] | | | |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pituitary Gland [Adenoma TGLS = 6-1] | Pars Distalis | Adenoma | |
| * Prostate | | Inflammation | Chronic, Marked |
| * Testes [Adenoma TGLS = 2-7] [Atrophy TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92392

ORGAN AND ACCOUNTABLE SITE STATUS

Tissue NOS

Follicle
Abdominal

Mineralization
Fibrosis

Focal, Minimal
Moderate

Note: TGLs 4-21 and 5-22 are adhesions involving serosal surface of the following tissues: liver, diaphragm, mesentery, ileum, and spleen.

[Fibrosis TGLS = 4-21, 5-22]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|-----------------------|------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Mammary Gland | | Dilatation | Mild |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Prostate | | Mineralization | Focal, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|-------------|---|--|
| * Adrenal Cortex | | Atrophy Hyperplasia Leukemia Mononuclear Vacuolization Cytoplasmic | Moderate Diffuse, Moderate Focal, Moderate |
| [Atrophy TGLS = 8-10] | | | |
| [Hyperplasia TGLS = 7-10] | | | |
| [Vacuolization Cytoplasmic TGLS = 7-10] | | | |
| * Adrenal Medulla | | Hyperplasia Leukemia Mononuclear | Focal, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Focal, Marked |
| | Bile Duct | Hyperplasia Leukemia Mononuclear | Marked |
| [Hyperplasia TGLS = 9-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Ectasia TGLS = 6-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92394

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------------------|----------------------|----------------|
| [Leukemia Mononuclear TGLS = 11-3] | | | |
| [Leukemia Mononuclear TGLS = 6-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 10-5] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 4-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 4-21] | | | |
| * Pancreas | Acinus | Adenoma | |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92395

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92396

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------------|---------------------------|-----------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Schwannoma Benign | |
| [Schwannoma Benign TGLS = 5-22] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 4-7] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 3-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Preputial Gland | | Adenoma | |
| [Adenoma TGLS = 1-8] | | | |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92396

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 607

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88905

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|---------------------|------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Esophagus |
| * Harderian Gland | * Heart | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Mammary Gland | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Thymus |
| * Trachea | | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Liver |
| * Nose | * Spleen | * Stomach, Glandular | * Thyroid Gland |
| * Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|----------------------------|---------------|------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Epididymis | | Mesothelioma Malignant | |
| * Kidney | | Nephropathy | Mild |
| * Lung | | Congestion | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Congestion TGLS = 4-2] | | | |
| Lymph Node | Mediastinal | Angiectasis | Moderate |
| | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| [Angiectasis TGLS = 2-3] | | | |
| [Hyperplasia TGLS = 2-3] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

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First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 607

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88905

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

Subcut Tiss

Fibroma

Note: Fibroma, TGL 5-22, is on eyelid.

[Fibroma TGLS = 5-22]

* Testes

Mesothelioma Malignant

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------------------|-----------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| [Clear Cell Focus TGLS = 5-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 6-7] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| Note: Pituitary adenoma is composed of acidophil cells. | | | |
| [Adenoma TGLS = 4-1] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92397

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Lymph Node, Mesenteric

OBSERVATIONS

| | | | |
|----------------------------|----------------|---------------------------|------------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Moderate |
| [Hyperplasia TGLS = 2-6] | | | |
| * Testes | Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92398

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------------------|------------------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Cyst | Mild |
| | | Nephropathy | Mild |
| [Cyst TGLS = 3-21] | | | |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | | Hemorrhage | Focal, Mild |
| [Alveolar/Bronchiolar Adenoma TGLS = 4-2] | | | |
| [Hemorrhage TGLS = 4-2] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-1] | | | |
| * Prostate | Epithelium | Hyperplasia | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92399

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen
[Leukemia Mononuclear TGLS = 5-6]

Mineralization
Leukemia Mononuclear

Focal, Mild

* Testes
[Adenoma TGLS = 1-7]

Bilateral, Interstit Cell

Adenoma

Multiple

* Thyroid Gland

C Cell
Follicular Cel
Follicle

Hyperplasia
Hypertrophy
Mineralization

Mild
Mild
Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * 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, Mesenteric |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------------|---------------------------|---------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Mixed Cell Focus TGLS = 5-23] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 4-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-22] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92400

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 3-7]

* Thyroid Gland

C Cell

Follicle

Hyperplasia

Mineralization

Mild

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 703

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Nose | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Leukemia Mononuclear | |
| | | Thrombosis | Moderate |
| [Thrombosis TGLS = 6-5] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Leukemia Mononuclear | |
| [Ectasia TGLS = 3-7] | | | |
| [Hyperplasia TGLS = 3-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 703

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90397

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-5]

* Mammary Gland

Dilatation

Mild

* Pancreas

Acinus

Atrophy

Focal, Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 7-1]

* Prostate

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-6]

* Stomach, Glandular

Erosion

Mild

[Erosion TGLS = 8-21]

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|---------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Harderian Gland | | Inflammation | Chronic, Focal, Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * 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 |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|---------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Thrombosis | Moderate |
| [Thrombosis TGLS = 8-5] | | | |
| * Kidney | | Nephropathy | Mild |
| [Nephropathy TGLS = 7-5] | | | |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 3-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92402

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------------------|----------------------|-----------------|
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Nose | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|---------------------------------------|---------------------------|------------------------|---------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6, 3-22] | | | |
| [Clear Cell Focus TGLS = 3-6, 3-22] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| * Mammary Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92403

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 675

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Mammary Gland |
| * Pancreas | * Parathyroid Gland | Peripheral Nerve | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | Spinal Cord |
| * Spleen | * Stomach, Glandular | * Testes | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|--------------|-------------------------------|--------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Intestine Small, Jejunum | Epithelium | Necrosis | Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| [Ectasia TGLS = 4-24] | | | |
| Mesentery | | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLS = 2-21] | | | |
| * Nose | | Inflammation | Suppurative, Mild |
| Peritoneum | | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLS = 3-22, 6-4, 7-4, 9-4, 10-23] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 675

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90131

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Erosion

Moderate

Hyperplasia

Moderate

Inflammation

Chronic, Focal, Moderate

* Thyroid Gland

C Cell

Hyperplasia

Mild

C Cell

Hyperplasia

Focal, Mild

Follicular Cel

Hypertrophy

Minimal

PRIMARY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------|--|---------------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | [Clear Cell Focus TGLS = 3-6, 3-21] | | |
| | [Vacuolization Cytoplasmic TGLS = 3-6, 3-21] | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Mineralization | Focal, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| | [Adenoma TGLS = 2-7] | | |
| | [Atrophy TGLS = 1-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 135 | TRT#: 5 DOSE: 1000MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92404 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicular Cel Follicle | Hypertrophy Mineralization | Mild Focal, Mild |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 576

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

| | | |
|--------------------------|--------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Ileum |
|--------------------------|--------------------------|--------------------------|

OBSERVATIONS

| | | | |
|---|---------------------------|----------------------------|------------------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Cholangiofibrosis | Marked |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Lymphoid, Focal, Moderate |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Cholangiofibrosis TGLS = 3-22, 4-6, 5-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 2-21] | | | |
| [Hyperplasia TGLS = 5-6] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 576

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88786

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Liver Cholangiofibrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 | * Lung | * Nose |
| * Pancreas | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|-----------------------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Degeneration | Cystic, Focal, Marked |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6, 4-22] | | Vacuolization Cytoplasmic | Mild |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis, Pars Nervosa | Hemorrhage | Focal, Moderate |
| [Adenoma TGLS = 5-1] | | | |
| [Hemorrhage TGLS = 5-1] | | | |
| * Preputial Gland | | Degeneration | Cystic, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92405

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 2-8]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 3-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|---------------|---------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 4-6, 4-21] | | | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hemorrhage TGLS = 3-3] | | | |
| [Hyperplasia TGLS = 3-3] | | | |
| [Hyperplasia TGLS = 2-7] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Cyst | Mild |
| | Pars Distalis | Hyperplasia | Focal, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92406

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---------------------------|----------------|-----------------|
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---|-----------------------------------|--------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Harderian Gland | | Hyperplasia | Histiocytic, Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Moderate |
| | [Vacuolization Cytoplasmic TGLS = 3-22] | | |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLS = 1-21] | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 2-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92407

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|---------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | Spinal Cord |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------|---------------------------------|---------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Minimal |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Intermed | Hemorrhage | Focal, Mild |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| | [Hyperplasia TGLS = 3-1] | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | | Keratoacanthoma | |
| | [Keratoacanthoma TGLS = 1-21] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 2-7] | | |
| * Thymus | | Thymoma Benign | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92409

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|---------------------------|-----------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 2-7] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|-----------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Basophilic Focus TGLS = 3-6, 3-21] | | |
| | [Clear Cell Focus TGLS = 3-6, 3-21] | | |
| * Nose | | Foreign Body | Mild |
| | | Inflammation | Suppurative, Mild |
| | Note: Foreign body is hair in inflammatory exudate, in nasal meatus. | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLS = 2-1] | | |
| * Preputial Gland | | Inflammation | Chronic, Moderate |
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 1-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92411

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 605

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88906

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|---------------------------|---|----------------|
| * Adrenal Cortex | | Leukemia Mononuclear Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Minimal |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Infarct | Moderate |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| [Infarct TGLS = 5-5] | | | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Moderate |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-2] | | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-7] | | | |
| [Leukemia Mononuclear TGLS = 6-3.1] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 605

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88906

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|------------------------------|----------------------|-----------------|
| * Pituitary Gland | Rathkes Cleft | Hemorrhage | Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Moderate |
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 475

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88177

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Epididymis
* Mammary Gland
* Prostate
* Spleen
* Trachea

* Adrenal Medulla
* Esophagus
* Nose
* Salivary Glands
* Stomach, Forestomach

* Bone
* Intestine Large, Rectum
* Parathyroid Gland
* Seminal Vesicle
* Testes

* Brain
* Lymph Node, Mesenteric
* Preputial Gland
* Skin
* Thymus

MISSING

* Eye
* Lymph Node, Mandibular

* Pituitary Gland

AUTO PRECLUDES DIAG.

* Harderian Gland
* Intestine Small, Ileum
* Liver
* Urinary Bladder

* Intestine Large, Cecum
* Intestine Small, Jejunum
* Pancreas

* Intestine Large, Colon
* Islets, Pancreatic
* Stomach, Glandular

* Intestine Small, Duodenum
* Kidney
* Thyroid Gland

OBSERVATIONS

* Bone Marrow
* Heart
* Lung

Hyperplasia
Cardiomyopathy
Hemorrhage
Hyperplasia
Necrosis

Mild
Mild
Mild
Histiocytic, Minimal
Moderate

Mesentery
[Necrosis TGLS = 1-21, 2-22]

Fat

Tongue
[Sarcoma TGLS = 3-23,4-24,5-25,6-26]

Sarcoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|-----------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Basophilic Focus TGLS = 5-6, 5-23] | | |
| | [Clear Cell Focus TGLS = 5-6, 5-23] | | |
| | [Hepatodiaphragmatic Nodule TGLS = 4-22] | | |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| | Pars Distalis | Hemorrhage | Focal, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Skin | | Cyst Epithelial Inclusion | Moderate |
| | [Cyst Epithelial Inclusion TGLS = 1-21] | | |
| * Spleen | | Metaplasia | Lipocyte, Focal, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92412

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 3-7]

* Thyroid Gland

C Cell

Follicular Cel

Follicle

Hyperplasia

Hypertrophy

Mineralization

Malformation

Moderate

Minimal

Focal, Mild

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Preputial Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|---|---------------------------------------|
| * Adrenal Cortex | | Degeneration Leukemia Mononuclear Vacuolization Cytoplasmic | Cystic, Focal, Mild Focal, Minimal |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus Clear Cell Focus Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia Leukemia Mononuclear | Moderate |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Skin | | Cyst Epithelial Inclusion | Mild |
| | [Cyst Epithelial Inclusion TGLS = 2-8] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 1-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92413

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 626

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-89100

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|-------------------|-------------------|---------------------|
| * Bone | * Epididymis | * Esophagus | * Harderian Gland |
| * Islets, Pancreatic | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Thymus | * Trachea | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Thyroid Gland |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|--------------------------|---|---------------------------|----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-5, 6-21] | | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| * Preputial Gland | | Adenoma | |
| | [Adenoma TGLS = 1-8-1] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 626

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-89100

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------------------|----------------------|---------------|
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Stomach, Forestomach | | Leukemia Mononuclear | |
| * Stomach, Glandular | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|---------------------------|---------------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 4-6, 4-23] | | | |
| [Clear Cell Focus TGLS = 4-6, 4-23] | | | |
| * Lung | | Hyperplasia | Histiocytic, Focal, Minimal |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 3-22] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 149 | TRT#: 5 DOSE: 1000MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92414 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Moderate Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|---------------------------|---------------------------|---------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 4-1] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Basophilic Focus TGLS = 5-6, 5-21] | | | |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | Follicle | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92415

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 701

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

| | | | |
|--|----------------|----------------------------------|------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 2-1] | | | |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Hepatodiaphragmatic Nodule TGLS = 5-21, 6-22] | | | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| [Ectasia TGLS = 4-7] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 1-1] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Testes | | Atrophy | Moderate |
| | Interstit Cell | Hyperplasia | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 701

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90398

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 3-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicular Cel

Hypertrophy

Moderate

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 703

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Mammary Gland | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Forestomach | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------------------|---------------------------|---|-------------|
| * Adrenal Cortex | | Leukemia Mononuclear Vacuolization Cytoplasmic | Focal, Mild |
| * Adrenal Medulla | Bilateral | Leukemia Mononuclear Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 10-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-24] | | | |
| [Leukemia Mononuclear TGLS = 6-7] | | | |
| * Lymph Node, Mesenteric | | Amyloid Deposition | Marked |
| | | Ectasia | Marked |
| | | Leukemia Mononuclear | |
| [Amyloid Deposition TGLS = 7-23] | | | |
| [Ectasia TGLS = 7-23] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 703

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90399

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|------------------------------|---------------------------|-----------------|
| [Leukemia Mononuclear TGLS = 7-23] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 5-22] | | | |
| * Nose | | Leukemia Mononuclear | |
| * Pituitary Gland | Rathkes Cleft | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 9-1] | | | |
| * Skin | | Cyst Epithelial Inclusion | Mild |
| [Cyst Epithelial Inclusion TGLS = 2-21] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-25] | | | |
| * Stomach, Glandular | | Erosion | Minimal |
| | | Ulcer | Mild |
| [Erosion TGLS = 11-4, 11-26.2] | | | |
| [Ulcer TGLS = 11-26, 11-26.2] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 4-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------------------|---|------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | | | |
| Note: Tissue section of one eye was insufficient for evaluation, due to artifact and some missing tissue. Other eye was normal. | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| | Pars Distalis | Hemorrhage | Focal, Moderate |
| | | [Hemorrhage TGLS = 3-1] | |
| * Prostate | Epithelium | Hyperplasia | Focal, Mild |
| | | Inflammation | Chronic, Mild |
| * Spleen | | Fibrosis | Focal, Marked |
| | | [Fibrosis TGLS = 1-21] | |
| * Stomach, Forestomach | | Squamous Cell Papilloma | |
| | | [Squamous Cell Papilloma TGLS = 4-22] | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 153 | TRT#: 7 | SEX: Male | DAY ON TEST: 731 |
| | DOSE: 2000MG/L | DISP: Terminal Sacrifice | HISTO: 00-92416 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|----------------|----------------|-----------------|
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 644

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-89830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|--------------------------|----------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Glandular | * Trachea | Zymbal's Gland | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | |
|-----------------------------|----------------------------|
| * Intestine Small, Duodenum | * Intestine Small, Jejunum |
|-----------------------------|----------------------------|

OBSERVATIONS

| | | | |
|---|--------------|---------------------------|-----------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Edema | Moderate |
| * Kidney | Renal Tubule | Nephropathy | Moderate |
| | | Pigmentation | Marked |
| [Pigmentation TGLS = 8-5] | | | |
| * Liver | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Necrosis | Focal, Moderate |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Moderate |
| Note: Many of the hyperplastic bile ducts in this rat are unusual in showing poorly-formed lumens and tendency towards oval cell configuration. | | | |
| [Leukemia Mononuclear TGLS = 9-6] | | | |
| * Lung | Interstitial | Edema | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 11-2] | | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 12-21] | | | |
| [Leukemia Mononuclear TGLS = 10-3] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 644

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-89830

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|----------------------|-----------------|
| * Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 7-5] | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Focal, Minimal |
| * Prostate | | Mineralization | Focal, Moderate |
| * Spleen [Leukemia Mononuclear TGLS = 2-6] | | Leukemia Mononuclear | |
| * Stomach, Forestomach | | Edema | Moderate |
| | Epithelium | Hyperplasia | Mild |
| | | Ulcer | Mild |
| * Testes [Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | Follicular Cel | Hypertrophy | Minimal |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| * Urinary Bladder | | Edema | Moderate |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 639

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Mammary Gland | * Nose | * Pancreas | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|------------|---|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Brain | | Hemorrhage | Focal, Moderate |
| | | Leukemia Mononuclear | |
| | | [Hemorrhage TGLS = 6-1, 7-1, 8-1] | |
| | | [Leukemia Mononuclear TGLS = 6-1, 7-1, 8-1] | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 4-6] | |
| * Lung | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| | | [Hemorrhage TGLS = 5-2] | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 3-22] | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Focal, Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 639

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89509

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 1-21]

| | | | |
|------------|------------|----------------------|----------------|
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| * Spleen | | Leukemia Mononuclear | |

[Leukemia Mononuclear TGLS = 2-6-1]

| | | | |
|-----------------|---------------------------|----------------------|----------------|
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|-------------------|--|----------------------------|------------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Diffuse, Moderate |
| | [Hepatodiaphragmatic Nodule TGLS = 5-22] | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Cytoplasmic Alteration | Focal, Mild |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Moderate |
| | [Hyperplasia TGLS = 1-6, 2-6, 3-21] | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92417

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 4-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 482

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-88229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|----------------------|-------------------|-------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * Intestine Large, Rectum | * Islets, Pancreatic | * Mammary Gland | * Nose |
| * Parathyroid Gland | Peripheral Nerve | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | Spinal Cord |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| Zymbal's Gland | | | |

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Thyroid Gland | | |

OBSERVATIONS

| | | | |
|-------------------------------------|------------|----------------------|---------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-7] | | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-5] | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | Capsule | Fibrosis | Focal, Mild |
| | | Leukemia Mononuclear | |

Note: Laceration of spleen (TGL 5) apparently was an artifact of the necropsy procedure.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 482

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-88229

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

* Testes

Interstit Cell

Hyperplasia

Focal, Mild

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------------------|---------------------------|--|--------------------------|
| * Adrenal Medulla | | Hyperplasia Pheochromocytoma Benign | Focal, Moderate |
| * Bone Marrow | | Hyperplasia | Marked |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| | | Inflammation | Chronic, Focal, Moderate |
| | | Leukemia Mononuclear | |
| [Hyperplasia TGLS = 8-2, 8-23] | | | |
| [Leukemia Mononuclear TGLS = 6-2] | | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-24] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90232

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|---|----------------------------|
| * Lymph Node, Mesenteric Mesentery [Necrosis TGLS = 3-21] | Fat | Leukemia Mononuclear Necrosis | Focal, Mild |
| * Pituitary Gland [Angiectasis TGLS = 7-1] | | Angiectasis | Moderate |
| * Spleen [Leukemia Mononuclear TGLS = 1-22] | | Angiectasis Fibrosis Leukemia Mononuclear | Focal, Mild Focal, Mild |
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 651

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|---|---------------------------|-------------------------------|---------------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | Cornea, Retrobulbar | Inflammation | Chronic Active, Moderate |
| * Harderian Gland | | Inflammation | Chronic Active, Diffuse, Marked |
| Note: TGL 9-23 is right Harderian gland. Left Harderian gland is histologically normal. | | | |
| [Inflammation TGLS = 9-23] | | | |
| * Heart | | Inflammation | Chronic, Focal, Moderate |
| [Inflammation TGLS = 6-5-1] | | | |
| * Intestine Large, Cecum | | Ulcer | Marked |
| [Ulcer TGLS = 5-4] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | Mediastinal | Inflammation | Chronic Active, Moderate |
| [Ectasia TGLS = 8-22] | | | |
| [Hyperplasia TGLS = 8-22] | | | |
| [Inflammation TGLS = 7-3] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:24
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 159 | TRT#: 7 | SEX: Male | DAY ON TEST: 651 |
| | DOSE: 2000MG/L | DISP: Moribund Sacrifice | HISTO: 00-89666 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------------------|----------------------------------|----------------------|
| * Pituitary Gland [Adenoma TGLS = 10-1] | Pars Distalis | Adenoma | |
| * Preputial Gland [Necrosis TGLS = 1-21] | | Necrosis | Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Stomach, Glandular [Ulcer TGLS = 11-24] | | Ulcer | Mild |
| * Testes [Adenoma TGLS = 3-7] [Atrophy TGLS = 4-7] | Bilateral, Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

| | | |
|-----------------------------|-------------------|--------------|
| PRIMARY CAUSE OF DEATH | - Preputial Gland | Necrosis |
| CONTRIBUTORY CAUSE OF DEATH | - Harderian Gland | Inflammation |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|-------------|--------------------------------|-------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | | [Hyperplasia TGLS = 6-3] | |
| | | [Hyperplasia TGLS = 3-7] | |
| * Mammary Gland | | Inflammation | Chronic, Focal, Minimal |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| | | [Necrosis TGLS = 4-21, 5-22] | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Prostate | | Inflammation | Chronic, Minimal |
| | | Mineralization | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92418

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|--|---|---------------------------------|
| * Spleen [Congestion TGLS = 2-6] | | Congestion | Moderate |
| * Testes [Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland [Carcinoma TGLS = 7-3, 7-3.1] | C Cell C Cell Follicular Cel Follicle | Carcinoma Hyperplasia Hypertrophy Mineralization | Mild Mild Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 651

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------|---------------------------|--|---------------------------------|
| * Adrenal Cortex | | Infiltration Cellular Vacuolization Cytoplasmic | Mixed Cell, Mild Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus Hyperplasia Infiltration Cellular | Moderate Mixed Cell, Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma Atrophy | Multiple Moderate |
| [Adenoma TGLS = 2-7] | | | |
| [Atrophy TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell Follicular Cel | Hyperplasia Hypertrophy | Mild Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 651

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89667

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|-----------------------|----------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| | | Mixed Cell Focus | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Intermed | Adenoma | |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | Follicular Cel | Carcinoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |
| [Carcinoma TGLS = 3-3] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92419

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|---------------|-----------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | | Atrophy | Moderate |
| [Atrophy TGLS = 1-44] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Leukemia Mononuclear | |
| [Clear Cell Focus TGLS = 5-23] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 2-8] | | | |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Osteosarcoma | |
| [Osteosarcoma TGLS = 3-21, 3-22] | | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92420

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|----------------|-------------|
| * Testes [Adenoma TGLS = 4-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------|--------------------------------------|----------|
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Epididymis | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 9-21] | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Centrilobular, Hepatocyte | Atrophy | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | | [Leukemia Mononuclear TGLS = 6-6] | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 4-22] | |
| | | [Leukemia Mononuclear TGLS = 8-3] | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 5-5] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92421

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|----------------|----------------------|-----------------------|
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Testes | Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | Atrophy | Moderate |
| [Atrophy TGLS = 2-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Mild |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 681

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90161

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------|--------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Preputial Gland | * Prostate |
| * Seminal Vesicle | * Skin | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|-------------|-----------------------------------|-----------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 7-1] | | | |
| * Epididymis | | Fibrosis | Moderate |
| * Intestine Large, Cecum | | Edema | Moderate |
| * Intestine Large, Colon | | Edema | Moderate |
| * Intestine Large, Rectum | | Edema | Moderate |
| * Intestine Small, Duodenum | Epithelium | Hyperplasia | Moderate |
| [Hyperplasia TGLS = 10-4] | | | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Marked |
| [Nephropathy TGLS = 4-5, 4-5-1] | | | |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Diffuse, Marked |
| [Vacuolization Cytoplasmic TGLS = 5-21, 6-6] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | | Hemorrhage | Moderate |

Note: Location of hemorrhagic lymph node was not recorded at time of gross examination (TGL 12-23).

[Hemorrhage TGLS = 12-23]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 165 | TRT#: 7 | SEX: Male | DAY ON TEST: 681 |
| | DOSE: 2000MG/L | DISP: Moribund Sacrifice | HISTO: 00-90161 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|----------------|----------------|--------------------------|
| Mesentery [Inflammation TGLS = 9-4, 9-22] | | Inflammation | Chronic, Focal, Moderate |
| * Pancreas | Duct | Cyst | Focal, Moderate |
| * Pituitary Gland [Adenoma TGLS = 8-1] | Pars Distalis | Adenoma | |
| * Salivary Glands | | Atrophy | Moderate |
| * Spleen | | Atrophy | Mild |
| | | Pigmentation | Moderate |
| [Atrophy TGLS = 3-6] | | | |
| [Pigmentation TGLS = 3-6] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| * Stomach, Glandular | | Perforation | Moderate |
| | | Ulcer | Marked |
| [Perforation TGLS = 11-4, 11-22] | | | |
| [Ulcer TGLS = 11-4, 11-22] | | | |
| * Testes | Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Marked |
| [Adenoma TGLS = 1-7] | | | |
| [Atrophy TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Moderate |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Stomach;Glandular Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|---------------------------|------------------|
| * Adrenal Cortex [Carcinoma TGLS = 5-23] | | Carcinoma | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Islets, Pancreatic [Carcinoma TGLS = 4-21] | | Carcinoma | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| Lymph Node [Ectasia TGLS = 3-7] | Pancreatic | Ectasia | Moderate |
| * Lymph Node, Mesenteric [Ectasia TGLS = 6-5] | | Ectasia | Marked |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland [Adenoma TGLS = 8-1] | Pars Distalis | Adenoma | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Fibroma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---|---|---|
| ANIMAL ID: 166 | TRT#: 7 DOSE: 2000MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 731 HISTO: 00-92422 |
|-----------------------|---|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------|---------------------------|----------------|-----------------|
| [Fibroma TGLS = 7-22] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 562

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-88513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------|--------------------------|---------------------------|-----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Islets, Pancreatic | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | |
|--------------------------|----------------------------|-----------------|
| * Intestine Large, Cecum | * Intestine Small, Jejunum | * Thyroid Gland |
|--------------------------|----------------------------|-----------------|

OBSERVATIONS

- | | | | |
|---|---------------------------|---------------------------|----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| | | Atrophy | Moderate |
| * Harderian Gland | | Hyperplasia | Moderate |
| * Heart | | Fibrosis | Focal, Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 13-5] | | | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Mild |
| [Leukemia Mononuclear TGLS = 14-5] | | | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Moderate |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 10-6] | | | |
| [Necrosis TGLS = 10-6] | | | |
| [Vacuolization Cytoplasmic TGLS = 10-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 562

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-88513

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|---------------------------|--------------------------------------|----------------------|
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 4-7] | |
| | | [Leukemia Mononuclear TGLS = 12-3] | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 5-5] | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 3-7] | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Moderate |
| | | [Inflammation TGLS = 6-7, 7-7] | |
| * Spleen | | Leukemia Mononuclear | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | [Adenoma TGLS = 2-7] | |
| * Thymus | | Leukemia Mononuclear | |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| * Urinary Bladder | | Edema | Moderate |
| | | [Edema TGLS = 8-8] | |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Skin | | Basal Cell Carcinoma | |
| Note: Skin basal cell carcinoma is on slide 8. | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | | [Adenoma TGLS = 1-7] |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Moderate |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 590

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|---------------|----------------------------------|--------------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Epididymis | | Inflammation | Chronic, Moderate |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Hyperplasia | Lymphoid, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLS = 3-22] | | | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Mild |
| | | Hemorrhage | Focal, Mild |
| * Preputial Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 590

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88839

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 2-6]

| | | | |
|-----------------|----------------|-------------|----------|
| * Testes | Germinal Epith | Atrophy | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------|---------------------------|-------------------------------------|------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| * Preputial Gland | | Adenoma | |
| | | Inflammation | Chronic, Mild |
| | | [Adenoma TGLS = 1-8] | |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 3-6] | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | [Adenoma TGLS = 2-7] | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 170 | TRT#: 7 DOSE: 2000MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92424 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Moderate |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:24

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 678

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90132

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|--------------------------|---------------------------|-----------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Islets, Pancreatic | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

AUTO PRECLUDES DIAG.

| | |
|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Jejunum |
|--------------------------|----------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Brain | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 10-1] | | |
| | [Leukemia Mononuclear TGLS = 10-1] | | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte, Midzonal | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 8-2] | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---|--|---|
| ANIMAL ID: 171 | TRT#: 7 DOSE: 2000MG/L | SEX: Male DISP: Natural Death | DAY ON TEST: 678 HISTO: 00-90132 |
|-----------------------|---|--|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|------------------------------|--|------------------|
| * Pituitary Gland | Pars Distalis | Leukemia Mononuclear Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Adenoma | |
| [Adenoma TGLS = 2-8] | | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Angiectasis | Focal, Mild |
| | | Fibrosis | Focal, Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-21] | | | |
| * Stomach, Forestomach | | Edema | Moderate |
| | Epithelium | Hyperplasia | Mild |
| | | Ulcer | Moderate |
| [Hyperplasia TGLS = 7-4, 7-22] | | | |
| [Ulcer TGLS = 7-4] | | | |
| * Stomach, Glandular | | Erosion | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 6-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------|---------------|---------------------------|------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| * Lung | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| | | Inflammation | Chronic, Focal, Minimal |
| | | | [Inflammation TGLS = 5-22] |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | | | [Hyperplasia TGLS = 3-7] |
| | Fat | Necrosis | Focal, Minimal |
| | | | [Necrosis TGLS = 4-21] |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Cyst | Mild |
| | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:25
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|-----------------------|---|---|---|
| ANIMAL ID: 172 | TRT#: 7 DOSE: 2000MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 729 HISTO: 00-92425 |
|-----------------------|---|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|--|---|---------------------------------|
| * Testes [Adenoma TGLS = 2-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland [Adenoma TGLS = 1-3] | Follicular Cel C Cell Follicular Cel Follicle | Adenoma Hyperplasia Hypertrophy Mineralization | Mild Mild Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 671

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90133

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose |
| * Parathyroid Gland | * Preputial Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|---------------------------|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Brain | | Compression | Focal, Moderate |
| | | Leukemia Mononuclear | |
| [Compression TGLS = 9-1] | | | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-7] | | | |
| [Leukemia Mononuclear TGLS = 8-3] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 173 | TRT#: 7 | SEX: Male | DAY ON TEST: 671 |
| | DOSE: 2000MG/L | DISP: Moribund Sacrifice | HISTO: 00-90133 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|----------------|----------------------|-----------------|
| [Leukemia Mononuclear TGLS = 5-5] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 10-1] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-21] | | | |
| * Testes | Interstit Cell | Hyperplasia | Focal, Minimal |
| [Hyperplasia TGLS = 2-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Moderate |

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

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 720

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|------------------------|-------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Thymus |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|-----------------|
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Thyroid Gland |
|-----------------------------|--------------------------|----------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------------------|---------------------------|---------------------------|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Moderate |
| | | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 8-1] | | | |
| [Leukemia Mononuclear TGLS = 8-1] | | | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | Lymphoid Tiss | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-24] | | | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Marked |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Necrosis | Moderate |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 720

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90925

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------------------|----------------------|--------------------|
| [Leukemia Mononuclear TGLS = 4-23] | | | |
| [Leukemia Mononuclear TGLS = 6-3] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | | Leukemia Mononuclear | |
| * Preputial Gland | | Atrophy | Moderate |
| * Prostate | | Leukemia Mononuclear | |
| * Spleen | | Infarct | Multiple, Moderate |
| | | Leukemia Mononuclear | |
| [Infarct TGLS = 7-22] | | | |
| [Leukemia Mononuclear TGLS = 3-22] | | | |
| * Stomach, Glandular | | Erosion | Minimal |
| | | Leukemia Mononuclear | |
| [Erosion TGLS = 10-25] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| * Trachea | Peritrach Tiss | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * 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 |
| * Mammary Gland | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|-------------|-----------------------|---------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Eye | | Atrophy | Moderate |
| [Atrophy TGLS = 4-44] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Focal, Mild |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Angiectasis TGLS = 6-23] | | | |
| * Lung | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| [Hyperplasia TGLS = 2-3] | | | |
| * Nose | | Foreign Body | Mild |
| | | Inflammation | Suppurative, Mild |
| Note: Foreign body in nose is mainly hair. | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92426

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|-------------------------|-------------|
| * Testes [Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Mild |
| Tongue [Squamous Cell Papilloma TGLS = 3-21] | | Squamous Cell Papilloma | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 703

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|----------------------------|---------------------------|---|-------------------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration Vacuolization Cytoplasmic | Focal, Mild Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Marked |
| [Compression TGLS = 2-1] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Diffuse, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | | Edema | Moderate |
| | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Chronic, Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 703

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90400

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Moderate

Follicle

Mineralization

Focal, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------|---------------------------|---------------------------|----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Harderian Gland | | Inflammation | Chronic, Focal, Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | | Fibroadenoma | |
| * Mammary Gland | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 177 | TRT#: 7 DOSE: 2000MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 731 HISTO: 00-92427 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| [Adenoma TGLS = 2-3] | Follicular Cel | Hypertrophy | Mild |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 718

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Nose | * Pancreas | * Parathyroid Gland | Peripheral Nerve |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| Spinal Cord | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

OBSERVATIONS

| | | | |
|-------------------|---|--|-------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | | Cataract | Mild |
| | Retina | Degeneration | Moderate |
| | Note: Cataract and retinal degeneration affect one eye, only. | | |
| * Heart | | Leukemia Mononuclear | |
| | | Thrombosis | Moderate |
| | | [Thrombosis TGLS = 11-5] | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | | [Leukemia Mononuclear TGLS = 8-6, 9-6] | |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 10-2] | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 718

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90926

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|------------------------------|---|------------------------------------|
| Lymph Node [Leukemia Mononuclear TGLS = 4-7] | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 12-22] | | Leukemia Mononuclear | |
| * Mammary Gland [Fibroadenoma TGLS = 1-8] [Hyperplasia TGLS = 1-8] | | Fibroadenoma Hyperplasia | Moderate |
| Mesentery | | Leukemia Mononuclear | |
| * Pituitary Gland [Adenoma TGLS = 13-1] | Pars Distalis | Adenoma | |
| * Skin [Keratoacanthoma TGLS = 2-21] | | Keratoacanthoma | |
| * Spleen [Angiectasis TGLS = 6-23] [Fibrosis TGLS = 6-23] [Leukemia Mononuclear TGLS = 5-23] | | Angiectasis Fibrosis Leukemia Mononuclear | Focal, Moderate Focal, Moderate |
| * Testes [Adenoma TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell C Cell Follicle | Adenoma Hyperplasia Mineralization | Mild Focal, Moderate |

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

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * 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, Mesenteric | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|------------------------------|---------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Eye | | Cataract | Moderate |
| | Retina | Degeneration | Moderate |
| | [Cataract TGLS = 1-44] | | |
| | [Degeneration TGLS = 1-44] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| * Mammary Gland | | Hyperplasia | Moderate |
| | [Hyperplasia TGLS = 2-8] | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLS = 4-1] | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| | | Inflammation | Chronic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92428

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------------|---------------------------|----------------|-----------------|
| * Testes [Adenoma TGLS = 3-7] | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---|---------------------------|--------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | | Infiltration Cellular | Mixed Cell, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | [Vacuolization Cytoplasmic TGLS = 2-21] | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | | Angiectasis | Moderate |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| | | Mineralization | Focal, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 1-7] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 180 | TRT#: 7 DOSE: 2000MG/L | SEX: Male DISP: Terminal Sacrifice | DAY ON TEST: 730 HISTO: 00-92429 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Moderate |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * 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 | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------|---------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Mild |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Epididymis | | Mesothelioma Malignant | |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Focal, Mild |
| | | Degeneration | Cystic, Focal, Mild |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | [Hepatodiaphragmatic Nodule TGLS = 8-23] | | |
| | [Mixed Cell Focus TGLS = 9-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Mesothelioma Malignant | |
| | Fat | Necrosis | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92430

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 6-22]

[Necrosis TGLS = 10-24]

* Preputial Gland

Degeneration

Cystic, Moderate

[Degeneration TGLS = 3-8]

* Prostate

Epithelium

Hyperplasia

Focal, Minimal

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 1-21]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Multiple

[Adenoma TGLS = 11-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lymph Node, Mesenteric | * Nose |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------|----------------|---------------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | | Hemorrhage | Focal, Mild |
| | Alveolar Epith | Hyperplasia | Focal, Mild |
| | Mediastinal | Ectasia | Marked |
| Lymph Node | | Fibroadenoma | |
| * Mammary Gland | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| | | Mineralization | Focal, Mild |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92431

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|---------------------------|----------------|-----------------|
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| * Thyroid Gland | C Cell | Adenoma | |
| | Follicular Cel | Carcinoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Moderate |
| | Follicle | Mineralization | Focal, Moderate |

[Carcinoma TGLS = 2-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|---------------|-----------------------------------|------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Adrenal Medulla | Bilateral | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Brain | | Compression | Focal, Mild |
| * Heart | | Infiltration Cellular | Mixed Cell, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Marked |
| [Hyperplasia TGLS = 6-3] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 4-23] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92432

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------------------|----------------------------------|------------------|
| * Skin | Subcut Tiss | Inflammation | Chronic, Minimal |
| [Fibroma TGLS = 1-21, 2-22] | | Fibroma | Multiple |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 5-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-7] | | | |
| * Thyroid Gland | Follicular Cel | Carcinoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Moderate |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 465

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88178

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Thymus |
| * Trachea | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------|--|----------------------|-----------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Moderate |
| | | Leukemia Mononuclear | |

Note: Focal lesions of leukemia and hemorrhage are in the olfactory bulbs of brain (on slide 9-1), as well as in cerebellum, cerebral cortex, and brainstem.

[Hemorrhage TGLS = 10-1, 10-1-1, 11-1, 12-1-1]

[Leukemia Mononuclear TGLS = 10-1, 10-1-1, 11-1, 12-1-1]

- | | | | |
|----------|--------|-----------------------|------------------|
| * Kidney | Pelvis | Infiltration Cellular | Mixed Cell, Mild |
| | | Nephropathy | Mild |

[Nephropathy TGLS = 8-5]

- | | | | |
|---------|-----------|----------------------|------|
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |

[Leukemia Mononuclear TGLS = 9-6]

- | | | | |
|------------|------------|----------------------|--|
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |

[Leukemia Mononuclear TGLS = 7-7]

- | | | | |
|--------------------------|-----|----------------------|------|
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Mild |

[Necrosis TGLS = 5-23]

- | | | | |
|-------------------|--|---------|--|
| * Preputial Gland | | Adenoma | |
|-------------------|--|---------|--|

[Adenoma TGLS = 1-21]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 465

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88178

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|----------------|----------------------|----------------|
| * Prostate [Inflammation TGLS = 4-7] | | Inflammation | Chronic, Mild |
| * Spleen [Leukemia Mononuclear TGLS = 6-6] | | Leukemia Mononuclear | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| * Stomach, Glandular | | Erosion | Mild |
| * Testes | Interstit Cell | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| * Urinary Bladder [Inflammation TGLS = 3-8] | Serosa | Inflammation | Focal, Mild |

PRIMARY CAUSE OF DEATH - Brain Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 710

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Mammary Gland | * Nose |
| * Parathyroid Gland | Peripheral Nerve | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| Spinal Cord | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|--|----------------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Marked |
| * Brain | | Carcinoma | Metastatic (Zymbal'S Gland) |
| | | Hemorrhage | Focal, Moderate |
| | [Carcinoma TGLS = 7-1] | | |
| | [Hemorrhage TGLS = 7-1] | | |
| * Heart | | Carcinoma | Metastatic (Zymbal'S Gland) |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Focal, Mild |
| | | Degeneration | Cystic, Focal, Mild |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | | Vacuolization Cytoplasmic | Diffuse, Moderate |
| | [Hepatodiaphragmatic Nodule TGLS = 3-21] | | |
| | [Vacuolization Cytoplasmic TGLS = 2-6] | | |
| * Lung | | Carcinoma | Metastatic (Zymbal'S Gland) |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | [Ectasia TGLS = 5-3] | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 710

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90785

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-5]

| | | | |
|------------------------|------------|----------------------------------|---------------------------|
| * Pancreas | Duct | Cyst | Focal, Multiple, Moderate |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Ulcer | Moderate |

[Hyperplasia TGLS = 9-23]

[Ulcer TGLS = 9-4, 9-23]

| | | | |
|----------|---------------------------|---------|----------|
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
|----------|---------------------------|---------|----------|

[Adenoma TGLS = 1-7]

| | | | |
|-----------------|----------------|----------------|----------------|
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| Zymbal's Gland | | Carcinoma | |

[Carcinoma TGLS = 6-22, 6-22-1, 6-22-2]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 7-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | Fat | Necrosis | Focal, Minimal |
| | [Necrosis TGLS = 5-23] | | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| | Rathkes Cleft | Hemorrhage | Moderate |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| | [Fibroma TGLS = 1-21, 2-22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 699

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90233

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------------------|--|----------------|
| * Spleen | | Hematopoietic Cell Proliferation Leukemia Mononuclear | Mild |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 3-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 545

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-88457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|----------------------------|--------------------------|---------------------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Seminal Vesicle | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Bone Marrow
- * Kidney

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- | | | | |
|---------------------------------------|-------------|----------------------|-------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-10] | | | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-10] | | | |
| * Epididymis | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-6] | | Necrosis | Focal, Mild |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 10-21] | | | |
| [Leukemia Mononuclear TGLS = 4-7-1] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 545

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-88457

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|----------------|----------------------|------------------|
| [Leukemia Mononuclear TGLS = 8-5-1] | | | |
| Mesentery | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-5-1] | | | |
| * Pancreas | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-7-1] | | | |
| * Pituitary Gland | Rathkes Cleft | Cyst | Marked |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Salivary Glands | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-8-1] | | | |
| * Skin | Subcut Tiss | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-8-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Testes | Interstit Cell | Adenoma | |
| [Adenoma TGLS = 3-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-3, 10-21] | | | |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------------|---------------------------|---------------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Clear Cell Focus TGLS = 3-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| [Hyperplasia TGLS = 2-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92433

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Minimal

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * 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 | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Stomach, Forestomach | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|---------------------------|--------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Cholangiofibrosis | Mild |
| | | Fibrosis | Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | [Leukemia Mononuclear TGLS = 2-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Minimal |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | Epithelium | Hyperplasia | Focal, Mild |
| | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Schwannoma Malignant | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92434

ORGAN AND ACCOUNTABLE SITE STATUS

[Schwannoma Malignant TGLS = 4-21]

* Spleen Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Stomach, Glandular Leukemia Mononuclear

* Testes Bilateral, Interstit Cell Adenoma Multiple

[Adenoma TGLS = 1-7]

* Thymus Leukemia Mononuclear

* Thyroid Gland Follicle Cyst Moderate

C Cell Hyperplasia Minimal

Follicular Cel Hypertrophy Moderate

Follicle Mineralization Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Epididymis | * Esophagus | * Eye | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Mammary Gland | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | Spinal Cord | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|---------------------------|------------------------|-----------------------------|
| * Bone Marrow | | Hyperplasia | Moderate |
| * Harderian Gland | | Hyperplasia | Histiocytic, Focal, Minimal |
| * Kidney | | Lipoma | |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| * Lymph Node, Mesenteric | | Ectasia | Moderate |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92435

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

Follicle

Cyst

Moderate

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * 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, Mesenteric |
| * Nose | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | Spinal Cord | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|-------------|---|-----------------------|
| * Adrenal Medulla | | Hyperplasia Pheochromocytoma Malignant | Focal, Minimal |
| [Pheochromocytoma Malignant TGLS = 4-24] | | | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Vacuolization Cytoplasmic | Focal, Minimal |
| Lymph Node | Mediastinal | Alveolar/Bronchiolar Carcinoma | |
| [Hyperplasia TGLS = 6-3] | | Hyperplasia | Lymphoid, Moderate |
| * Mammary Gland | | Cyst | Moderate |
| Note: Cyst (TGL 2-22) is filled with hemolyzed blood and crystallized hemoglobin. | | | |
| [Cyst TGLS = 2-22] | | | |
| Mesentery | Fat | Necrosis | Focal, Marked |
| [Necrosis TGLS = 3-23] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Skin | | Basal Cell Carcinoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92436

ORGAN AND ACCOUNTABLE SITE STATUS

[Basal Cell Carcinoma TGLS = 1-21]

* Thymus

Hyperplasia

Lymphoid, Moderate

* Thyroid Gland

Follicular Cel

Hypertrophy

Moderate

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 443

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 99-88021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum

OBSERVATIONS

- | | | | |
|--|----------------|---------------------------|----------------------|
| * Adrenal Medulla | Bilateral | Ganglioneuroma | |
| Note: Both adrenal glands contain a ganglioneuroma. The tumor of the left adrenal (TGL 3-22) is much larger than the one in the right adrenal. | | | |
| [Ganglioneuroma TGLS = 3-22] | | | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Minimal |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| * Preputial GI | | | |
| Note: One of pair is missing. | | | |
| * Testes | Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 443

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 99-88021

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Bilateral Ganglioneuroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------|--|----------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Moderate |
| | [Hepatodiaphragmatic Nodule TGLS = 6-22] | | |
| | [Vacuolization Cytoplasmic TGLS = 8-24] | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Marked |
| | [Hyperplasia TGLS = 7-23] | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | [Hyperplasia TGLS = 5-7] | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| | [Necrosis TGLS = 3-21] | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | [Atrophy TGLS = 4-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92437

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------|---------------------------|------------------------|------------------|
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Degeneration | Cystic, Moderate |
| | | Inflammation | Chronic, Minimal |
| [Degeneration TGLS = 1-8] | | | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--|---------------|---------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 4-1] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Eosinophilic Focus | |
| | | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| [Vacuolization Cytoplasmic TGLS = 3-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92438

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---------------------------|----------------|-------------------|
| * Prostate | | Inflammation | Chronic, Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 2-7] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|---------------------------|---------------------------|-----------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Epididymis | | Inflammation | Chronic, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 2-7] | | | |
| * Pancreas | Acinus | Atrophy | Diffuse, Marked |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Preputial Gland | | Adenoma | |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Moderate |
| | Follicle | Mineralization | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92439

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Mammary Gland | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------|---------------------------|---------------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Mixed Cell Focus | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| Lymph Node | Pancreatic | Ectasia | Mild |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| | | | [Necrosis TGLS = 2-21] |
| * Nose | Nasolacrim Dct | Inflammation | Mild |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Parathyroid Gland | | Hyperplasia | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | | [Adenoma TGLS = 1-7] |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92440

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 |
| * Nose | * Pancreas | * Parathyroid Gland | * Prostate |
| * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--------------------------|---------------|-------------------------------------|------------------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Salivary Glands | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Leukemia Mononuclear | |
| | | [Hyperplasia TGLS = 1-8] | |
| | | [Leukemia Mononuclear TGLS = 1-8] | |
| * Skin | Subcut Tiss | Hyperplasia | Histiocytic, Focal, Moderate |
| | Subcut Tiss | Leukemia Mononuclear | |
| | | [Hyperplasia TGLS = 1-8] | |
| | | [Leukemia Mononuclear TGLS = 1-8] | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92441

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

[Adenoma TGLS = 2-7]

Bilateral, Interstit Cell

Leukemia Mononuclear

Adenoma

Multiple

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Esophagus | * Eye | * 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 | * Seminal Vesicle | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|---------------------------|--|-------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Epididymis | | Mesothelioma Malignant | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| | | [Leukemia Mononuclear TGLS = 6-6] | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 7-5] | |
| Mesentery | | Mesothelioma Malignant | |
| | | [Mesothelioma Malignant TGLS = 3-22] | |
| * Pancreas | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 198 | TRT#: 7 | SEX: Male | DAY ON TEST: 729 |
| | DOSE: 2000MG/L | DISP: Terminal Sacrifice | HISTO: 00-92442 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|--------------------------------------|----------------------|---------------|
| * Pituitary Gland | | Leukemia Mononuclear | |
| * Preputial Gland | | Leukemia Mononuclear | |
| * Prostate | | Inflammation | Chronic, Mild |
| | | Leukemia Mononuclear | |
| * Salivary Glands | | Leukemia Mononuclear | |
| * Skin | Subcut Tiss | Fibroma | |
| | Subcut Tiss | Leukemia Mononuclear | |
| | [Fibroma TGLS = 9-23] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-24] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | [Adenoma TGLS = 4-7] | | |
| * Thymus | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 8-3] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Mild |
| Tissue NOS | Thoracic | Fibroma | |
| | [Fibroma TGLS = 1-21] | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 672

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90134

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|---------------------------|-----------------------|--------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Mild |
| * Intestine Large, Rectum | | Congestion | Moderate |
| | | Hemorrhage | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| [Hyperplasia TGLS = 10-2, 10-21] | | | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Mediastinal | Hemorrhage | Moderate |
| [Ectasia TGLS = 2-7] | | | |
| [Hemorrhage TGLS = 9-3] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 11-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 672

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90134

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---------------------------|----------------------------------|-------------|
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Stomach, Forestomach | | Edema | Moderate |
| | Epithelium | Hyperplasia | Mild |
| | | Ulcer | Moderate |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Mild |

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

| | |
|--------------------------|-----------------|
| * Lymph Node, Mandibular | * Mammary Gland |
|--------------------------|-----------------|

OBSERVATIONS

| | | | |
|-------------------------------------|-------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Cardiomyopathy | Mild |
| | | Thrombosis | Moderate |
| [Thrombosis TGLS = 7-5-1] | | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Preputial Gland | | Adenoma | |
| | | Carcinoma | |
| [Adenoma TGLS = 1-21] | | | |
| [Carcinoma TGLS = 1-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92443

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------------------|----------------------------------|----------------|
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | Multiple |
| | | Atrophy | Moderate |
| [Adenoma TGLS = 2-7] | | | |
| [Atrophy TGLS = 3-7] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Adenoma | |
| | Follicular Cel | Carcinoma | |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |
| [Adenoma TGLS = 6-3] | | | |
| [Carcinoma TGLS = 6-3] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92924

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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, Mesenteric | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|----------------|-----------------------------------|-----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| * Ovary | | Cyst | Moderate |
| [Cyst TGLS = 3-7, 3-7-1] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Cyst | Moderate |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| [Cyst TGLS = 4-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92925

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------|--|--------------------------|
| * Clitoral Gland [Degeneration TGLS = 1-8] | | Degeneration | Cystic, Moderate |
| * Eye [Cataract TGLS = 7-44] [Degeneration TGLS = 7-44] | Retina | Cataract Degeneration | Moderate Marked |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus Leukemia Mononuclear Mixed Cell Focus | |
| Lymph Node * Lymph Node, Mesenteric | Pancreatic | Hyperplasia Leukemia Mononuclear | Histiocytic, Moderate |
| * Mammary Gland [Fibroadenoma TGLS = 2-21, 3-22] | | Fibroadenoma | Multiple |
| Mesentery [Necrosis TGLS = 4-23] | Fat | Necrosis | Focal, Mild |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland [Hyperplasia TGLS = 6-1] | Pars Distalis | Hyperplasia | Focal, Mild |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92925

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Natural Death

DAY ON TEST: 555

HISTO: 00-88514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Stomach, Forestomach | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|---------------------------|-------------------|
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Pigmentation | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| | [Basophilic Focus TGLS = 4-6] | | |
| | [Necrosis TGLS = 4-6] | | |
| | [Vacuolization Cytoplasmic TGLS = 4-6] | | |
| * Lung | | Hyperplasia | Histiocytic, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Infiltration Cellular TGLS = 5-2] | | |
| * Mammary Gland | | Ectasia | Moderate |
| * Ovary | | Cyst | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Mild |
| | [Adenoma TGLS = 7-1] | | |
| | [Angiectasis TGLS = 7-1] | | |
| * Skin | Pinna | Neural Crest Tumor | |
| | [Neural Crest Tumor TGLS = 1-21] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 2

SEX: Female

DAY ON TEST: 555

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-88514

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------|-----------------------------------|----------------------------------|-------------|
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Glandular | | Erosion | Mild |
| | | Pigmentation | Focal, Mild |
| | [Erosion TGLS = 8-4, 8-22] | | |
| | [Pigmentation TGLS = 8-4, 8-22] | | |
| * Thymus | | Hemorrhage | Moderate |
| | [Hemorrhage TGLS = 6-3] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | | Ultimobranchial Cyst | Mild |

PRIMARY CAUSE OF DEATH

- Skin Pinna Neural Crest Tumor

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92926

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |
| Zymbal's Gland | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------|---------------|---------------------------|-----------------------------|
| * Brain | | Compression | Focal, Marked |
| [Compression TGLS = 7-1] | | | |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 3-8-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Congestion | Mild |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Congestion TGLS = 5-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| * Pancreas | Acinus | Adenoma | |
| | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92926

ORGAN AND ACCOUNTABLE SITE STATUS

* Salivary Glands

Atrophy

Focal, Mild

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 205

TRT#: 2

SEX: Female

DAY ON TEST: 661

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------------------------------|---------------------------|-------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Diffuse, Mild |
| | [Basophilic Focus TGLS = 7-6, 7-21] | | |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| * Mammary Gland | | Dilatation | Mild |
| | [Dilatation TGLS = 1-8] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| | Pars Distalis | Hemorrhage | Focal, Moderate |
| | [Adenoma TGLS = 3-1] | | |
| | [Degeneration TGLS = 3-1] | | |
| | [Hemorrhage TGLS = 3-1] | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|--|---------------|----------------------------|-------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Clitoral Gland | | Inflammation | Chronic, Moderate |
| [Inflammation TGLS = 2-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 4-6-1, 4-23] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 5-23] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Dilatation TGLS = 3-8] | | | |
| [Fibroadenoma TGLS = 1-21, 1-22] | | | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Hemorrhage TGLS = 7-1] | | | |
| * Thyroid Gland | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Polyp Stromal | |
| [Polyp Stromal TGLS = 6-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92927

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 00-92928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * 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, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|---------------|-------------------------------|-----------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 2-4] | | | |
| * Clitoral Gland | | Inflammation | Chronic, Minimal |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92928

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92929

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|-------------------------------|------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Harderian Gland | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Hyperplasia | Cystic, Focal, Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 2-6] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 1-7] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Hemorrhage TGLS = 3-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92929

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92930

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Esophagus |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|--------------------------------|--|------------------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule Vacuolization Cytoplasmic | Minimal Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Clitoral Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |
| * Eye | | Cataract | Mild |
| [Cataract TGLS = 8-44] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia Hyperplasia Leukemia Mononuclear | Mild Histiocytic, Focal, Mild |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Hyperplasia Leukemia Mononuclear | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 6-8] | | | |
| * Pancreas | Acinus | Adenoma | |
| [Adenoma TGLS = 2-22] | | | |
| * Pituitary Gland | Pars Distalis Pars Distalis | Degeneration Hyperplasia | Cystic, Focal, Mild Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 209

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92930

ORGAN AND ACCOUNTABLE SITE STATUS

[Degeneration TGLS = 7-1]

[Hyperplasia TGLS = 7-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6]

* Thyroid Gland

Follicular Cel

Carcinoma

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

[Carcinoma TGLS = 5-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 2

SEX: Female

DAY ON TEST: 511

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Hyperplasia | Histiocytic, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Carcinoma | Multiple |
| | | Ectasia | Mild |
| [Carcinoma TGLS = 1-21] | | | |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLS = 4-22] | | | |
| * Ovary | | Cyst | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLS = 3-6] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | | Hydrometra | Moderate |

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | Vagina | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|---------------|---------------------------|--------------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 7-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Mild |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Minimal |
| [Basophilic Focus TGLS = 5-6] | | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 1-21, 3-22] | | | |
| [Fibroadenoma TGLS = 1-21, 3-22] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 8-1] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Ulcer | Mild |
| [Hyperplasia TGLS = 9-6, 9-23] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 2

SEX: Female

DAY ON TEST: 727

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90960

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 9-23]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Moderate

[Adenoma TGLS = 6-3]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92931

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|------------|----------------------------------|------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| * Mammary Gland | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | | |
| | | | |
| [Dilatation TGLS = 1-8, 2-21] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 3-22, 4-23] | | | |
| * Pituitary Gland | | Angiectasis | Moderate |
| [Angiectasis TGLS = 6-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 212

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92931

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|-------------|----------------------------------|------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Congestion | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Note: Extravasation of blood in liver section apparently is artifact of necropsy procedure. | | | |
| | | [Congestion TGLS = 4-6] | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | [Dilatation TGLS = 1-21] | |
| | | [Fibroadenoma TGLS = 1-21] | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| | | [Necrosis TGLS = 3-22] | |
| * Pituitary Gland | | Angiectasis | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 213

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92932

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-3]

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Bone | * Brain | * Esophagus |
| * 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, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | | | |
|--------------------------|---------------------|-------------------|----------|
| * Lymph Node, Mandibular | * Parathyroid Gland | * Pituitary Gland | * Thymus |
| * Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------|-----------------------|--------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Clitoral Gland | | Carcinoma | |
| | | Cyst | Marked |
| | Duct | Inflammation | Chronic, Marked |
| [Carcinoma TGLS = 3-22] | | | |
| [Cyst TGLS = 1-21] | | | |
| [Inflammation TGLS = 1-21] | | | |
| * Eye | | Atrophy | Moderate |
| [Atrophy TGLS = 8-44] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 7-6] | | | |
| Lymph Node | Deep Cervical | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| [Hyperplasia TGLS = 9-24] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---------------------|---------------------------------|-------------------------|
| ANIMAL ID: 214 | TRT#: 2 | SEX: Female | DAY ON TEST: 734 |
| | DOSE: 0 MG/L | DISP: Terminal Sacrifice | HISTO: 00-92933 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | |
|---|----------------------------------|--------|
| [Dilatation TGLS = 2-8] | | |
| [Fibroadenoma TGLS = 1-21] | | |
| * Skin | Basal Cell Carcinoma | |
| [Basal Cell Carcinoma TGLS = 4-23] | | |
| * Spleen | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLS = 5-6] | | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 215

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|-----------------------|-----------------------|
| * Brain | | Compression | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Marked |
| | | Hyperplasia | Focal, Moderate |
| [Dilatation TGLS = 1-8, 2-21] | | | |
| [Hyperplasia TGLS = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Adenoma TGLS = 4-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|----------------|--------------------------------------|-----------------------------|
| * Clitoral Gland | | Adenoma Degeneration | Cystic, Moderate |
| [Adenoma TGLS = 4-21] | | | |
| [Degeneration TGLS = 3-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus Clear Cell Focus | |
| | Bile Duct | Hyperplasia Infiltration Cellular | Minimal Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| [Alveolar/Bronchiolar Adenoma TGLS = 8-2] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| * Mammary Gland | | Dilatation Hyperplasia | Moderate Mild |
| [Dilatation TGLS = 1-8, 4-21] | | | |
| [Hyperplasia TGLS = 1-8, 4-21] | | | |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 6-7] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92935

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Skin

Subcut Tiss

Fibroma

[Fibroma TGLS = 7-22]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 217

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 736

HISTO: 00-92936

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

OBSERVATIONS

| | | | |
|------------------------------------|---------------|---------------------------|------------------------------|
| * Clitoral Gland | | Inflammation | Chronic, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 5-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 2-8] | | | |
| [Fibroadenoma TGLS = 1-21, 3-22] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 4-23] | | | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 218

TRT#: 2

SEX: Female

DAY ON TEST: 462

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88179

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Kidney | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------|---------------|---|--|
| * Liver | | Basophilic Focus Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Carcinoma Hyperplasia | Metastatic (Mammary Gland) Histiocytic, Focal, Mild |
| [Carcinoma TGLS = 2-2] | | | |
| [Hyperplasia TGLS = 2-2] | | | |
| * Mammary Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |
| * Ovary | | Cyst | Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thymus | | Hyperplasia | Lymphoid, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 219

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92937

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|------------|---------------------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | [Dilatation TGLS = 2-8, 3-21] | |
| | | [Fibroadenoma TGLS = 3-21] | |
| * Pituitary Gland | | Angiectasis | Moderate |
| | | [Angiectasis TGLS = 5-1] | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92938

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|--------------------------|---|--|
| * Clitoral Gland [Degeneration TGLS = 4-8] | | Degeneration | Cystic, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus Clear Cell Focus Hyperplasia Hyperplasia Infiltration Cellular | Mild Histiocytic, Focal, Minimal Mixed Cell, Mild |
| [Basophilic Focus TGLS = 6-6] | | | |
| Lymph Node | Pancreatic Pancreatic | Hemorrhage Hyperplasia Hyperplasia | Moderate Histiocytic, Moderate Plasma Cell, Moderate |
| [Hyperplasia TGLS = 7-3] | | | |
| * Mammary Gland | | Dilatation Fibroadenoma | Mild Multiple |
| [Dilatation TGLS = 3-8] [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 220

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92938

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Sarcoma Stromal

[Hyperplasia TGLS = 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------|----------------------|----------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 1-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| | Mediastinal | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Fibroadenoma TGLS = 2-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Marked |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92939

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-22]

[Leukemia Mononuclear TGLS = 3-6, 4-22]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Esophagus | * Eye | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|-----------------------------|----------------|-----------------------|------------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Clitoral Gland | | Degeneration | Cystic, Moderate |
| [Degeneration TGLS = 2-8] | | | |
| * Harderian Gland | Epithelium | Hyperplasia | Focal, Minimal |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Capsule | Cyst | Moderate |
| | | Hemorrhage | Mild |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| [Cyst TGLS = 6-21] | | Infiltration Cellular | Mixed Cell, Mild |
| [Hyperplasia TGLS = 5-21] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| [Hemorrhage TGLS = 7-3.1] | | | |
| [Hemorrhage TGLS = 3-7] | | | |
| * Mammary Gland | | Fibrosis | Mild |
| [Fibrosis TGLS = 1-8] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 222

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92940

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------|----------------------------------|----------------|
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLS = 4-6] | | | |
| * Thyroid Gland | C Cell | Carcinoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| [Carcinoma TGLS = 8-3] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92941

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|---------------|-----------------------|------------------------------|
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 2-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 7-6] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 3-8, 4-22, 5-23] | | | |
| [Fibroadenoma TGLS = 4-22, 5-23] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 6-24] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| | Pars Distalis | Hemorrhage | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92941

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 8-1]

[Angiectasis TGLS = 8-1]

[Hemorrhage TGLS = 8-1]

* Skin

Trichoepithelioma

[Trichoepithelioma TGLS = 1-21]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92942

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|--------------------------|--|-----------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 3-1] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Inflammation Leukemia Mononuclear Nephropathy | Mild Chronic, Mild |
| | | Basophilic Focus | Minimal |
| * Liver | Bile Duct | Hyperplasia Leukemia Mononuclear Mixed Cell Focus | Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic Pancreatic | Hyperplasia Leukemia Mononuclear Leukemia Mononuclear | Histiocytic, Mild |
| * Lymph Node, Mesenteric | | Adenoma | |
| * Mammary Gland | | Dilatation | Mild |
| [Adenoma TGLS = 2-21] | | | |
| [Dilatation TGLS = 1-8] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92942

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------|----------------------|-----------------|
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Leukemia Mononuclear | |
| [Adenoma TGLS = 4-1] | | | |
| * Skin | Subcut Tiss | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-21] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92943

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|------------|----------------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Congestion | Mild |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Hyperplasia | Regenerative, Focal, Marked |
| | Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Focal, Moderate |
| [Congestion TGLS = 1-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 2-21] | | | |
| [Hyperplasia TGLS = 2-21] | | | |
| [Leukemia Mononuclear TGLS = 1-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 225

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92943

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 3-8]

* Pancreas Acinus Atrophy Focal, Marked

* Pituitary Gland Pars Distalis Adenoma

[Adenoma TGLS = 7-1]

* Spleen Leukemia Mononuclear

* Thyroid Gland C Cell Hyperplasia Moderate

Follicle Mineralization Focal, Minimal

* Uterus Endometrium Hyperplasia Cystic, Moderate

Endometrium Polyp Stromal Multiple

[Hyperplasia TGLS = 5-7]

[Polyp Stromal TGLS = 4-22, 5-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92944

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|--------------|-------------------------------|------------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Clitoral Gland | | Adenoma | |
| | | Inflammation | Chronic, Moderate |
| | | | [Adenoma TGLS = 3-22] |
| | | | [Inflammation TGLS = 3-22] |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Congestion | Mild |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | | | [Hemorrhage TGLS = 6-3] |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 226

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 00-92944

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------|----------------------|-----------------------|
| | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |
| Vagina | | Cyst | Moderate |
| | | Inflammation | Chronic, Moderate |

Note: TGL 7-7 is cystic dilatation of the fornix of the vagina, with inflammation of the affected area.

[Cyst TGLS = 7-7]

[Inflammation TGLS = 7-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 623

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|-----------------------|
| * Brain | | Compression | Focal, Mild |
| [Compression TGLS = 10-1] | | | |
| * Clitoral Gland | | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 2-8] | | | |
| * Heart | | Thrombosis | Moderate |
| [Thrombosis TGLS = 7-5] | | | |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Necrosis TGLS = 5-6] | | | |
| [Vacuolization Cytoplasmic TGLS = 5-6] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 4-7] | | | |
| [Hyperplasia TGLS = 6-3] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 1-8, 3-21] | | | |
| [Fibroadenoma TGLS = 1-8, 3-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 623

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88973

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|---------------|-------------|--------------------------|
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Adenoma TGLS = 8-1] | | | |
| [Hemorrhage TGLS = 9-1] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 3-21] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92945

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 | * Ovary | * Pancreas |
| * Parathyroid Gland | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---|--|--------------------------------------|
| * Brain | Thalamus Thalamus | Mineralization Necrosis | Focal, Moderate Focal, Moderate |
| Note: Brain lesions of necrosis and mineralization are included in a single and prominent unilateral focus, in the thalamus. | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus Hyperplasia Infiltration Cellular | Mild Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma Inflammation | Chronic, Focal, Minimal |
| Lymph Node | Pancreatic Deep Cervical Pancreatic | Ectasia Hemorrhage Hyperplasia | Mild Mild Histiocytic, Minimal |
| [Ectasia TGLS = 2-7] | | | |
| [Hemorrhage TGLS = 6-21] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Angiectasis Hyperplasia | Mild Focal, Moderate |
| [Angiectasis TGLS = 4-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92945

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-1]

* Salivary Glands

* Thyroid Gland

* Uterus

Vagina

[Cyst TGLS = 5-8]

C Cell

Follicle

Endometrium

Atrophy

Hyperplasia

Mineralization

Hyperplasia

Cyst

Focal, Mild

Mild

Focal, Minimal

Cystic, Minimal

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92946

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|----------------|-----------------------|------------------------------|
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Ectasia TGLS = 6-3] | | | |
| [Hemorrhage TGLS = 6-3] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 4-23] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92946

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

C Cell

Adenoma

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 718

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90927

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * 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 |
| * Parathyroid Gland | Peripheral Nerve | * Salivary Glands | * Skin |
| Spinal Cord | * Stomach, Forestomach | * Trachea | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Compression | Focal, Mild |
| [Compression TGLS = 14-1] | | | |
| * Clitoral Gland | | Inflammation | Chronic, Marked |
| [Inflammation TGLS = 5-24] | | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Marked |
| [Leukemia Mononuclear TGLS = 7-6] | | | |
| * Lung | | Infiltration Cellular | Mixed Cell, Moderate |
| | | Leukemia Mononuclear | |
| [Infiltration Cellular TGLS = 9-2] | | | |
| [Leukemia Mononuclear TGLS = 9-2] | | | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| Note: TGL 3-22 is axillary lymph node. | | | |
| [Leukemia Mononuclear TGLS = 13-29] | | | |
| [Leukemia Mononuclear TGLS = 8-25] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 230

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 718

HISTO: 00-90927

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|--------------------|-------------------------------|------------------------|
| [Leukemia Mononuclear TGLS = 3-22] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 10-5] | | | |
| * Mammary Gland | | Dilatation Fibroadenoma | Marked Multiple |
| [Dilatation TGLS = 1-21, 5-24] | | | |
| [Fibroadenoma TGLS = 1-21, 4-23] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 11-26] | | | |
| * Nose | | Inflammation | Suppurative, Mild |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 12-7] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 15-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-28] | | | |
| * Stomach, Glandular | | Erosion | Mild |
| [Erosion TGLS = 16-27] | | | |
| * Thymus | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-25] | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| * Urinary Bladder | | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 231

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92947

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|--------------|---------------------------|-----------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Clitoral Gland | | Carcinoma | |
| | | Inflammation | Chronic, Moderate |
| [Carcinoma TGLS = 2-8] | | | |
| [Inflammation TGLS = 2-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 4-6, 6-23] | | | |
| [Mixed Cell Focus TGLS = 4-6, 6-23] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| [Hyperplasia TGLS = 5-3] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Fibroadenoma TGLS = 3-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 231

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92947

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis
Pars Distalis
Rathkes Cleft

Cytoplasmic Alteration
Degeneration
Hemorrhage
Trichoepithelioma

Focal, Minimal
Cystic, Focal, Mild
Mild

* Skin

[Trichoepithelioma TGLS = 1-21]

* Thyroid Gland

C Cell
Follicle

Hyperplasia
Mineralization

Minimal
Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 232

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92948

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|------------|----------------------------|-----------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 3-8] | | | |
| * Islets, Pancreatic | | Adenoma | |
| Note: Adenoma contains a large area of hemorrhage. | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 5-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 6-22] | | | |
| [Mixed Cell Focus TGLS = 5-22] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| [Dilatation TGLS = 1-21, 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:25
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 232

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92948

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-8]

| | | | |
|-------------------|---------------|----------------|-------------------------|
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Moderate |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

[Hyperplasia TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92949

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|---------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Congestion | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 4-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| | | Fibrosis | Focal, Mild |
| [Dilatation TGLS = 2-22, 5-8] | | | |
| [Fibroadenoma TGLS = 2-22, 3-23] | | | |
| [Fibrosis TGLS = 1-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-1] | | | |
| * Skin | Subcut Tiss | Fibrosis | Focal, Mild |
| [Fibrosis TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92949

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Follicle
Endometrium

Mineralization
Hyperplasia

Focal, Minimal
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92950

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

| | | | |
|---|--------------|-------------------------------|-------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 1-21] | | | |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6, 9-6, 10-25] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Adenoma | |
| | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Adenoma TGLS = 4-8] | | | |
| [Dilatation TGLS = 4-8, 2-22, 3-23] | | | |
| [Fibroadenoma TGLS = 2-22, 3-23] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92950

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 6-24]

* Pituitary Gland

Pars Distalis

Adenoma

Angiectasis

Moderate

[Adenoma TGLS = 7-1]

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicle

Mineralization

Focal, Minimal

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 8-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92951

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------------------|------------------|
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 2-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 5-6] | | | |
| * Mammary Gland | | Adenoma | |
| | | Dilatation | Moderate |
| [Adenoma TGLS = 1-21] | | | |
| [Dilatation TGLS = 1-21, 3-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 4-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-1] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92951

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Natural Death

DAY ON TEST: 594

HISTO: 00-88852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Thyroid Gland

OBSERVATIONS

- | | | | |
|--------------------------------------|---------------------------|---|-------------------------|
| * Adrenal Cortex | | Angiectasis Cytoplasmic Alteration Leukemia Mononuclear | Moderate Focal, Mild |
| [Angiectasis TGLS = 6-10] | | | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia Leukemia Mononuclear | Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| * Lung | Alveolar Epith | Hyperplasia Leukemia Mononuclear | Minimal |
| [Leukemia Mononuclear TGLS = 10-2] | | | |
| Lymph Node | Mediastinal | Congestion | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Congestion TGLS = 9-3] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 2

SEX: Female

DAY ON TEST: 594

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-88852

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|-------------|----------------------|----------|
| [Leukemia Mononuclear TGLS = 9-3] | | | |
| [Leukemia Mononuclear TGLS = 5-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Ectasia | Mild |
| [Ectasia TGLS = 1-8] | | | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Moderate |
| [Necrosis TGLS = 2-21] | | | |
| * Pancreas | | Leukemia Mononuclear | |
| * Spleen | | Hemorrhage | Mild |
| | | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 4-6-1] | | | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Thymus | | Angiectasis | Moderate |
| [Angiectasis TGLS = 8-3] | | | |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 237

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92952

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------|------------|----------------------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Congestion | Mild |
| | | Degeneration | Cystic, Focal, Mild |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Congestion TGLS = 1-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92953

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------|-----------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 6-6] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Pancreatic | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Ectasia TGLS = 7-3] | | | |
| [Hemorrhage TGLS = 5-7] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 1-21, 2-22, 3-23, 4-8] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22, 3-23] | | | |
| [Hyperplasia TGLS = 1-21, 3-23, 4-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 238

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92953

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Pars Distalis

Hyperplasia

Focal, Mild

C Cell

Adenoma

C Cell

Hyperplasia

Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92954

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|-------------|-----------------------|-----------------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 3-23] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | | Angiectasis | Mild |
| [Angiectasis TGLS = 5-1] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 2-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---------------------------------------|---|---|
| ANIMAL ID: 239 | TRT#: 2 DOSE: 0 MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: 00-92954 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 2

SEX: Female

DAY ON TEST: 717

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90928

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Thymus | * Trachea | * Urinary Bladder | Vagina |

MISSING

| | |
|---------|--------------------------|
| * Brain | * Lymph Node, Mandibular |
|---------|--------------------------|

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|---------------------------|----------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | | Retinal Detachment | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-6] | Vacuolization Cytoplasmic | Marked |
| * Lung | | Hemorrhage | Focal, Mild |
| | [Hemorrhage TGLS = 6-2] | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-2] | | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 7-3] | | |
| | [Leukemia Mononuclear TGLS = 5-21] | | |
| | [Leukemia Mononuclear TGLS = 7-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 10-5] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---------------------|---------------------------------|-------------------------|
| ANIMAL ID: 240 | TRT#: 2 | SEX: Female | DAY ON TEST: 717 |
| | DOSE: 0 MG/L | DISP: Moribund Sacrifice | HISTO: 00-90928 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---------------|-----------------------------|-----------------------|
| * Mammary Gland [Dilatation TGLS = 1-8] | | Dilatation | Moderate |
| Mesentery | | Leukemia Mononuclear | |
| * Ovary [Granulosa Cell Tumor Benign TGLS = 4-7] | | Granulosa Cell Tumor Benign | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| | | Leukemia Mononuclear | |
| * Pituitary Gland [Hemorrhage TGLS = 12-1] | Pars Distalis | Hemorrhage | Focal, Moderate |
| * Spleen [Leukemia Mononuclear TGLS = 2-6] | | Leukemia Mononuclear | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Ulcer | Mild |
| * Stomach, Glandular [Erosion TGLS = 13-4, 13-22] | | Erosion | Focal, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92955

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|---|-------------------|
| * Adrenal Cortex | | Leukemia Mononuclear Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Marked |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Leukemia Mononuclear Vacuolization Cytoplasmic | Focal, Moderate |
| | [Leukemia Mononuclear TGLS = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Hemorrhage TGLS = 6-3] | | |
| | [Hemorrhage TGLS = 5-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| | [Fibroadenoma TGLS = 1-21] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 241

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92955

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---|---|---|
| * Ovary [Cyst TGLS = 4-7] | | Cyst | Moderate |
| * Pituitary Gland [Adenoma TGLS = 7-1] [Angiectasis TGLS = 7-1] | Pars Distalis | Adenoma Angiectasis | Moderate |
| * Spleen [Leukemia Mononuclear TGLS = 2-6] | | Leukemia Mononuclear | |
| * Thyroid Gland | Bilateral, C Cell C Cell Follicular Cel Follicle | Adenoma Hyperplasia Hyperplasia Mineralization | Mild Cystic, Focal, Mild Focal, Minimal |
| * Uterus | Endometrium | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 423

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 99-87896

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|----------------------------|--------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Mild |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| | [Hepatodiaphragmatic Nodule TGLS = 3-23] | | |
| * Lung | | Hyperplasia | Histiocytic, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | [Fibroadenoma TGLS = 1-21] | | |
| Mesentery | Fat | Necrosis | Mild |
| | [Necrosis TGLS = 2-22] | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| | | Pigmentation | Focal, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 423

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 99-87896

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 737

HISTO: 00-92956

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Kidney | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------------------------------|---|--|
| * Liver | Bile Duct | Cholangiofibrosis Hyperplasia Infiltration Cellular Mixed Cell Focus | Marked Moderate Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | [Cholangiofibrosis TGLS = 3-6, 6-6] | | |
| | [Mixed Cell Focus TGLS = 3-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| | [Hyperplasia TGLS = 7-23] | | |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| | [Hemorrhage TGLS = 4-7] | | |
| * Mammary Gland | | Fibrosis | Moderate |
| | | Hyperplasia | Moderate |
| | [Fibrosis TGLS = 1-8] | | |
| | [Hyperplasia TGLS = 1-8] | | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Marked |
| | [Hyperplasia TGLS = 2-21, 5-22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92956

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92957

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|------------|----------------------------|-------------------|
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 1-21] | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 4-23] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 6-8] | | | |
| [Fibroadenoma TGLS = 6-8] | | | |
| [Hyperplasia TGLS = 6-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 3-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 244

TRT#: 2

SEX: Female

DAY ON TEST: 737

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92957

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Degeneration

Cystic, Focal, Mild

[Adenoma TGLS = 8-1]

[Degeneration TGLS = 8-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

C Cell

Hyperplasia

Moderate

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 566

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------|--|----------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | Renal Tubule | Pigmentation | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hepatodiaphragmatic Nodule | Mild |
| | | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | [Basophilic Focus TGLS = 3-6] | |
| | | [Clear Cell Focus TGLS = 3-6] | |
| | | [Hepatodiaphragmatic Nodule TGLS = 2-22] | |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Fibroadenoma | |
| | | [Fibroadenoma TGLS = 1-21] | |
| Mesentery | Fat | Necrosis | Mild |
| | | [Necrosis TGLS = 4-23] | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 245

TRT#: 2

SEX: Female

DAY ON TEST: 566

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88787

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 644

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|---------------|-----------------------|------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 7-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Mammary Gland | | Carcinoma | |
| | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Carcinoma TGLS = 3-22] | | | |
| [Dilatation TGLS = 1-8, 2-21, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 6-23] | | | |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| [Carcinoma TGLS = 8-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | Endometrium | Polyp Stromal | |
| [Polyp Stromal TGLS = 4-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 246

TRT#: 2

SEX: Female

DAY ON TEST: 644

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89831

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 595

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-88853

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Bone
- * Intestine Large, Cecum
- * Islets, Pancreatic
- * Pancreas
- * Stomach, Forestomach
- * Uterus
- * Esophagus
- * Intestine Large, Colon
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Stomach, Glandular
- * Eye
- * Intestine Large, Rectum
- * Nose
- * Salivary Glands
- * Trachea
- * Harderian Gland
- * Intestine Small, Duodenum
- * Ovary
- * Skin
- * Urinary Bladder

AUTO PRECLUDES DIAG.

- * Intestine Small, Ileum
- * Intestine Small, Jejunum
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
 - [Hemorrhage TGLS = 4-10]
 - * Adrenal Medulla
 - * Bone Marrow
 - * Brain
 - * Clitoral Gland
 - * Heart
 - * Kidney
 - * Liver
 - Bile Duct
 - Centrilobular, Hepatocyte
 - [Hepatodiaphragmatic Nodule TGLS = 5-22]
 - [Leukemia Mononuclear TGLS = 6-6]
 - * Lung
 - [Leukemia Mononuclear TGLS = 8-2]
 - Lymph Node
 - Pancreatic
 - * Lymph Node, Mesenteric
 - * Mammary Gland
- Hemorrhage
Leukemia Mononuclear
Leukemia Mononuclear
Leukemia Mononuclear
Compression
Adenoma
Leukemia Mononuclear
Leukemia Mononuclear
Hepatodiaphragmatic Nodule
Hyperplasia
Leukemia Mononuclear
Vacuolization Cytoplasmic
Leukemia Mononuclear
Leukemia Mononuclear
Ectasia
Fibroadenoma
- Moderate
Focal, Mild
Moderate
Mild
Mild
Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 247

TRT#: 2

SEX: Female

DAY ON TEST: 595

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-88853

ORGAN AND ACCOUNTABLE SITE STATUS

Note: Fibroadenoma (TGL 2) has areas of marked ectasia of glandular tissue.

[Ectasia TGLS = 1-8, 2-21]

[Fibroadenoma TGLS = 2-21]

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Hemorrhage

Focal, Moderate

[Adenoma TGLS = 9-1]

[Hemorrhage TGLS = 9-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-6]

* Thymus

Angiectasis

Mild

[Angiectasis TGLS = 7-3]

[Leukemia Mononuclear TGLS = 7-3]

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 2

DOSE: 0 MG/L

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 734

HISTO: 00-92958

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------------------------|-----------------------|------------------|
| * Eye | Cornea | Inflammation | Chronic, Marked |
| | Cornea | Necrosis | Focal, Marked |
| | [Inflammation TGLS = 4-44] | | |
| | [Necrosis TGLS = 4-44] | | |
| * Intestine Large, Colon | | Leiomyosarcoma | |
| | [Leiomyosarcoma TGLS = 6-22] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | [Basophilic Focus TGLS = 3-6] | | |
| Lymph Node | Pancreatic | Pigmentation | Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | [Dilatation TGLS = 1-21] | | |
| | [Fibroadenoma TGLS = 1-21] | | |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| | [Cyst TGLS = 2-7] | | |
| * Pituitary Gland | Pars Distalis | Cyst | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92958

ORGAN AND ACCOUNTABLE SITE STATUS

Rathkes Cleft

Cyst

Mild

Pars Distalis

Degeneration

Cystic, Focal, Moderate

[Cyst TGLS = 5-1]

[Cyst TGLS = 5-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

Follicular Cel

Hypertrophy

Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92959

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Mandibular |
|------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------------|----------------|---|--------------------------|
| * Kidney | | Atrophy Nephropathy | Focal, Moderate Mild |
| [Atrophy TGLS = 4-5] | | | |
| * Liver | | Basophilic Focus Infiltration Cellular Mixed Cell Focus | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 250

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92960

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mandibular | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

| | | | |
|----------------------------------|--------------------------------|---|--|
| * Clitoral Gland | | Adenoma Degeneration | Cystic, Moderate |
| [Adenoma TGLS = 2-8] | | | |
| [Degeneration TGLS = 1-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus Hyperplasia Hyperplasia Infiltration Cellular | Minimal Histiocytic, Focal, Minimal Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia Hyperplasia Dilatation Fibroadenoma Hyperplasia | Histiocytic, Minimal Lymphoid, Moderate Marked Mild |
| * Lymph Node, Mesenteric | | | |
| * Mammary Gland | | | |
| [Dilatation TGLS = 3-8, 4-21] | | | |
| [Fibroadenoma TGLS = 4-21] | | | |
| [Hyperplasia TGLS = 3-8, 4-21] | | | |
| * Pituitary Gland | Pars Distalis Pars Distalis | Angiectasis Hyperplasia | Moderate Focal, Mild |
| [Angiectasis TGLS = 7-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 250

TRT#: 2

SEX: Female

DAY ON TEST: 734

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92960

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------------|-------------|---------------|--------------|
| [Hyperplasia TGLS = 8-1] | | | |
| * Skin | Subcut Tiss | Lipoma | |
| [Lipoma TGLS = 3-8] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Polyp Stromal | |
| [Hyperplasia TGLS = 6-7] | | | |
| [Polyp Stromal TGLS = 9-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

| | | | |
|--|----------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 4-6] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| [Hyperplasia TGLS = 5-3] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21, 2-22, 3-23] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22, 3-23] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 6-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 644

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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, Mesenteric | * Nose | * Parathyroid Gland | Peripheral Nerve |
| * Salivary Glands | * Skin | Spinal Cord | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|---------------|---|--|
| * Brain | | Carcinoma Compression | Metastatic (Pituitary Gland) Focal, Moderate |
| [Compression TGLS = 5-1] | | | |
| * Clitoral Gland | | Degeneration | Cystic, Moderate |
| [Degeneration TGLS = 2-8] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Nephropathy | Mild Minimal |
| * Liver | Bile Duct | Basophilic Focus Hyperplasia Hyperplasia Infiltration Cellular | Minimal Histiocytic, Focal, Minimal Mixed Cell, Mild |
| * Mammary Gland | Hepatocyte | Vacuolization Cytoplasmic Dilatation | Focal, Mild Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Ovary | | Cyst | Moderate |
| [Cyst TGLS = 3-7] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| [Carcinoma TGLS = 4-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 252 | TRT#: 4 | SEX: Female | DAY ON TEST: 644 |
| | DOSE: 125 MG/L | DISP: Moribund Sacrifice | HISTO: 00-89832 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|---|-------------|------|
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| PRIMARY CAUSE OF DEATH | - Pituitary Gland Pars Distalis Carcinoma | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------------------|------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Clitoral Gland | | Carcinoma | |
| [Carcinoma TGLS = 1-21] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 2-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Hyperplasia | Minimal |
| * Pituitary Gland | Rathkes Cleft | Hemorrhage | Mild |
| [Hemorrhage TGLS = 3-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 626

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89101

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|-----------------------------|
| * Clitoral Gland [Hyperplasia TGLS = 2-8] | | Hyperplasia | Cystic, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Clear Cell Focus | |
| | | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | | |
| | | | |
| | | | |
| * Lymph Node, Mandibular [Ectasia TGLS = 16-8-1] | | Ectasia | Moderate |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| | | | |
| | | | |
| | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Rathkes Cleft | Cyst | Mild |
| | | | |
| | | | |
| | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 626

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89101

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Carcinoma

C Cell

Hyperplasia

Moderate

[Carcinoma TGLS = 12-3]

Tissue NOS

Mediastinum

Carcinoma

Metastatic (Thyroid Gland)

[Carcinoma TGLS = 11-22]

PRIMARY CAUSE OF DEATH

- Tissue NOS Mediastinum Carcinoma Thyroid Gland

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92963

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Nose | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|----------------------------------|----------------|-----------------------|--------------------------|
| * Clitoral Gland | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-22] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| | Interstit Cell | Hyperplasia | Mild |
| [Cyst TGLS = 2-7] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92963

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92964

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---------------|-------------------------------------|---------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Bone Marrow | | Hyperplasia | Minimal |
| * Heart | | Cardiomyopathy | Mild |
| | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 3-6] | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| | | [Dilatation TGLS = 1-8] | |
| * Pituitary Gland | Pars Distalis | Cyst | Moderate |
| | | [Cyst TGLS = 4-1] | |
| * Spleen | | Leukemia Mononuclear | |
| | | [Leukemia Mononuclear TGLS = 2-6] | |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92964

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Minimal

Follicle

Mineralization

Focal, Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-92965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|----------------------|---|------------------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear Necrosis | Focal, Moderate |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 11-1, 12-25] | | | |
| * Brain | | Hemorrhage Necrosis | Focal, Moderate Focal, Moderate |
| [Hemorrhage TGLS = 11-1, 12-25] | | | |
| [Necrosis TGLS = 11-1, 12-25] | | | |
| * Eye | | Hemorrhage | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus Leukemia Mononuclear Vacuolization Cytoplasmic | |
| [Leukemia Mononuclear TGLS = 6-6] | Hepatocyte, Midzonal | | Marked |
| [Vacuolization Cytoplasmic TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-23] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-5] | | | |
| * Mammary Gland | | Dilatation | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 257 | TRT#: 4 | SEX: Female | DAY ON TEST: 733 |
| | DOSE: 125 MG/L | DISP: Moribund Sacrifice | HISTO: 00-92965 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|--------------------|--|---------------------------|
| | | Fibroadenoma Hyperplasia | Moderate |
| [Dilatation TGLS = 1-21] [Fibroadenoma TGLS = 1-21, 3-22] [Hyperplasia TGLS = 1-21, 4-8] | | | |
| Mesentery | | Leukemia Mononuclear Necrosis | Focal, Moderate |
| [Leukemia Mononuclear TGLS = 7-23] [Necrosis TGLS = 8-24] | Fat | | |
| * Nose | | Inflammation | Suppurative, Moderate |
| * Ovary | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Mild |
| [Hemorrhage TGLS = 10-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation Leukemia Mononuclear | Moderate |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Stomach, Forestomach | | Ulcer | Mild |
| * Stomach, Glandular | | Ulcer | Mild |
| [Ulcer TGLS = 11-26] | | | |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Minimal Focal, Minimal |
| * Uterus | | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 563

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|----------------------|--------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Islets, Pancreatic | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Thyroid Gland | | | |

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|--------------------------|
| * Bone | | Osteosarcoma | |
| [Osteosarcoma TGLS = 2-21] | | | |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Heart | | Cardiomyopathy | Moderate |
| * Kidney | | Infiltration Cellular | Polymorphnuclr, Moderate |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Polymorphnuclr, Moderate |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| | | Infiltration Cellular | Polymorphnuclr, Moderate |
| * Mammary Gland | | Ectasia | Mild |
| [Ectasia TGLS = 1-8] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| | | Hemorrhage | Mild |
| [Hematopoietic Cell Proliferation TGLS = 4-6] | | | |
| [Hemorrhage TGLS = 6-23] | | | |
| * Stomach, Forestomach | | Ulcer | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 563

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88515

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 5-22]

* Uterus

Inflammation

Suppurative, Moderate

Vagina

Inflammation

Suppurative, Moderate

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

Animal Note: Leukocytosis in this rat is obvious and intense, and is considered to be an exam ple of leukemoid reaction, resulting from necrosis of osteosarcoma (slide 21).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---|---|---|
| ANIMAL ID: 259 | TRT#: 4 DOSE: 125 MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 736 HISTO: 00-92966 |
|-----------------------|---|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * 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, Mesenteric | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|-----------------------|------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Dilatation TGLS = 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 3-7] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 657

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | Peripheral Nerve | * Salivary Glands |
| * Skin | Spinal Cord | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|----------------------------------|-----------------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Diffuse, Moderate |
| [Vacuolization Cytoplasmic TGLS = 2-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| | | Ulcer | Mild |
| [Hyperplasia TGLS = 4-4] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 657

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89833

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 4-4]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92967

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 3-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21, 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| [Hemorrhage TGLS = 4-1] | | | |
| [Hyperplasia TGLS = 4-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92967

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92968

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * 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 | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | Vagina | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------------------|-------------|---------------------------|---------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-10] | | | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-10] | | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-6] | | Vacuolization Cytoplasmic | Diffuse, Mild |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-23] | | | |
| [Leukemia Mononuclear TGLS = 9-3] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92968

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroadenoma TGLS = 2-21]

* Ovary

Leukemia Mononuclear

* Pituitary Gland

Pars Distalis

Adenoma

Pars Distalis

Degeneration

Cystic, Focal, Minimal

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-22]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92969

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|-------------------------------|-----------------------------|
| * Brain | | Compression | Focal, Mild |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 4-24] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| * Liver | Bile Duct | Basophilic Focus | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Hyperplasia | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 6-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 5-7] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 1-21, 2-22, 3-23] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22, 3-23] | | | |
| [Hyperplasia TGLS = 1-21, 3-23] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92969

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 8-1]

* Thyroid Gland

C Cell

Carcinoma

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92970

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|--------------------------|---------------------------|
| * Adrenal Medulla | * 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 | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------------|------------------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Moderate |
| * Intestine Small, Jejunum | | Leiomyoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21, 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 3-22] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92970

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 5-1]

* Thyroid Gland

Pars Distalis

Hyperplasia

Focal, Mild

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 365

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 99-87716

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Kidney | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | |
|------------------------------|----------------------------------|------------------------------|
| * Liver | Basophilic Focus | |
| | Hyperplasia | Histiocytic, Focal, Moderate |
| | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | |
| * Spleen | Hematopoietic Cell Proliferation | Mild |

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92971

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * 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, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------------------------|-----------------------|-----------------------------|
| * Eye | | Cataract | Moderate |
| | Retina | Degeneration | Moderate |
| | [Cataract TGLS = 5-44] | | |
| | [Degeneration TGLS = 5-44] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Basophilic Focus TGLS = 3-6] | | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Pigmentation | Minimal |
| | [Hemorrhage TGLS = 4-3] | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| | [Fibroadenoma TGLS = 1-21] | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| | [Necrosis TGLS = 2-22] | | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92971

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92972

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---|------------------------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration Vacuolization Cytoplasmic | Focal, Minimal Focal, Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Nephropathy | Mild Minimal |
| * Liver | | Basophilic Focus Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | Hepatocyte | Infiltration Cellular Vacuolization Cytoplasmic | Mixed Cell, Mild Focal, Minimal |
| [Basophilic Focus TGLS = 2-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Adenoma TGLS = 3-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation Hyperplasia | Mild Histiocytic, Focal, Mild |
| [Hyperplasia TGLS = 1-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92972

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92973

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|----------------|---|--|
| * Brain | | Carcinoma | Metastatic (Pituitary Gland) |
| Note: Portion of pituitary gland carcinoma is invading base of brain. | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Nephropathy Basophilic Focus Clear Cell Focus Congestion Hepatodiaphragmatic Nodule Infiltration Cellular | Mild Minimal Mild Moderate Mixed Cell, Minimal |
| [Basophilic Focus TGLS = 4-6] [Clear Cell Focus TGLS = 4-6] [Congestion TGLS = 4-6] [Hepatodiaphragmatic Nodule TGLS = 5-22] | | | |
| * Mammary Gland | | Dilatation Fibroadenoma | Marked |
| [Dilatation TGLS = 1-8, 2-21] [Fibroadenoma TGLS = 2-21] | | | |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 3-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92973

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Carcinoma

[Carcinoma TGLS = 6-1]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | Peripheral Nerve | * Salivary Glands | * Skin |
| Spinal Cord | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|----------------------------------|--------------------------|
| * Eye | | Cataract | Minimal |
| | Cornea | Inflammation | Chronic, Moderate |
| | [Cataract TGLS = 1-44] | | |
| | [Inflammation TGLS = 1-44] | | |
| * Harderian Gland | | Inflammation | Chronic, Focal, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Basophilic Focus TGLS = 5-6] | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | [Dilatation TGLS = 2-21, 3-22, 4-23] | | |
| | [Fibroadenoma TGLS = 2-21, 3-22, 4-23] | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| | [Angiectasis TGLS = 6-1] | | |
| | [Hyperplasia TGLS = 6-1] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92974

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92975

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

| | | | |
|----------------------------------|------------------------|---------------------------|-------------------------|
| * Adrenal Cortex | | Angiectasis | Moderate |
| | | Degeneration | Cystic, Focal, Moderate |
| | | Vacuolization Cytoplasmic | Focal, Moderate |
| * Kidney | | Atrophy | Diffuse, Marked |
| | Pelvis, Transit Epithe | Hyperplasia | Mild |
| | Pelvis | Inflammation | Chronic, Moderate |
| | | Nephropathy | Moderate |
| [Atrophy TGLS = 2-22] | | | |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Clear Cell Focus TGLS = 5-23] | | | |
| [Mixed Cell Focus TGLS = 5-23] | | | |
| * Lung | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Marked |
| [Dilatation TGLS = 1-21, 3-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Intermed | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 270 | TRT#: 4 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: 125 MG/L | DISP: Terminal Sacrifice | HISTO: 00-92975 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|------------------------|--------|-------------|------|
| [Adenoma TGLS = 4-1] | | | |
| [Adenoma TGLS = 4-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 714

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|---------------|----------------------------------|-----------------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 7-1] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| [Hemorrhage TGLS = 5-3] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLS = 1-21, 3-23] | | | |
| * Pancreas | Duct | Cyst | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 8-1] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 2-22] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 271 | TRT#: 4 DOSE: 125 MG/L | SEX: Female DISP: Moribund Sacrifice | DAY ON TEST: 714 HISTO: 00-90786 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Thyroid Gland | C Cell Follicular Cel | Hyperplasia Hypertrophy | Mild Minimal |
| PRIMARY CAUSE OF DEATH | - Pituitary Gland Pars Distalis Adenoma | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92976

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

OBSERVATIONS

| | | | |
|-------------------------------------|----------------|----------------------|----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| [Basophilic Focus TGLS = 5-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21, 4-8] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92977

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|----------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Clitoral Gland | | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 9-8] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 7-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 1-21, 2-22, 3-23, 4-8] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22, 3-23] | | | |
| [Hyperplasia TGLS = 1-21, 2-22, 4-8] | | | |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 5-7] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 8-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 273 | TRT#: 4 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: 125 MG/L | DISP: Terminal Sacrifice | HISTO: 00-92977 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--|---|---------------------------------------|-----------------|
| * Thyroid Gland | Bilateral, C Cell C Cell Follicular Cel | Adenoma Hyperplasia Hypertrophy | Mild Minimal |
| * Uterus [Polyp Stromal TGLS = 6-7] | Endometrium | Polyp Stromal | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92978

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------------------|---|---|
| * Brain | | Compression | Focal, Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Nephropathy | Mild Minimal |
| * Liver | Bile Duct | Basophilic Focus Hyperplasia Hyperplasia Infiltration Cellular | Mild Histiocytic, Focal, Minimal Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| Lymph Node | Mediastinal Pancreatic | Hyperplasia Pigmentation | Lymphoid, Moderate Minimal |
| [Hyperplasia TGLS = 6-3] | | | |
| * Mammary Gland | | Dilatation Hyperplasia | Mild Mild |
| [Dilatation TGLS = 1-8] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| [Cyst TGLS = 4-7] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92978

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-21]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicle

Mineralization

Focal, Minimal

* Uterus

Hemorrhage

Moderate

Endometrium

Polyp Stromal

[Hemorrhage TGLS = 2-7]

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92979

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|--|---------------------------|----------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | [Leukemia Mononuclear TGLS = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 8-3] | | |
| | [Leukemia Mononuclear TGLS = 4-24] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-23] | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| | [Dilatation TGLS = 1-8, 2-21] | | |
| | [Fibroadenoma TGLS = 2-21] | | |
| Mesentery | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 4-24, 6-23, 7-22] | | |
| * Nose | Nasolacrim Dct | Inflammation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92979

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------|----------------------|----------------|
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-24] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hemorrhage | Focal, Marked |
| [Adenoma TGLS = 9-1] | | | |
| [Hemorrhage TGLS = 9-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Ulcer | Moderate |
| [Hyperplasia TGLS = 10-25] | | | |
| [Ulcer TGLS = 10-25] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| * Uterus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 511

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Kidney | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------|------------------------|----------------------------------|----------------------|
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Hepatocyte, Periportal | Vacuolization Cytoplasmic | Minimal |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Pancreatic | Angiectasis | Moderate |
| | Pancreatic | Hemorrhage | Mild |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| | Pancreatic | Pigmentation | Moderate |
| [Angiectasis TGLS = 3-7-1] | | | |
| [Hemorrhage TGLS = 3-7-1] | | | |
| [Pigmentation TGLS = 3-7-1] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLS = 2-22] | | | |
| * Pituitary Gland | Pars Distalis | Cyst | Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 511

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88352

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92980

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|-------------------------------|------------------------------|
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Minimal |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Histiocytic Sarcoma | Metastatic (Skeletal Muscle) |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Histiocytic Sarcoma TGLS = 6-23, 7-24] | | |
| * Lung | | Histiocytic Sarcoma | Metastatic (Skeletal Muscle) |
| * Mammary Gland | | Histiocytic Sarcoma | Metastatic (Skeletal Muscle) |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| Skeletal Muscle | | Histiocytic Sarcoma | |
| | [Histiocytic Sarcoma TGLS = 2-22] | | |
| * Skin | Subcut Tiss | Histiocytic Sarcoma | Metastatic (Skeletal Muscle) |
| | | Inflammation | Chronic, Focal, Minimal |
| | [Inflammation TGLS = 1-21] | | |
| * Thyroid Gland | Bilateral, C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Note: Unable to remove "normal" tissue status from thyroid, which is abnormal. | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92980

ORGAN AND ACCOUNTABLE SITE STATUS

Endometrium

Polyp Stromal

[Hyperplasia TGLS = 3-7]

[Polyp Stromal TGLS = 5-7]

Vagina

Cyst

Moderate

[Cyst TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:25

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 727

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90961

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|------------------------------|----------------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Moderate |
| * Clitoral Gland | | Hyperplasia | Cystic, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 4-3] | | | |
| [Hyperplasia TGLS = 4-3] | | | |
| * Mammary Gland | | Hyperplasia | Mild |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| * Skin | Subcut Tiss | Fibrosarcoma | |
| [Fibrosarcoma TGLS = 2-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 727

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90961

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

C Cell

Hyperplasia

Mild

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92981

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 6-23] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 4-6] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|------------------------------|-------------------------------|------------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Moderate |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Pancreatic | Hemorrhage | Marked |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hemorrhage TGLS = 4-7] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Focal, Mild |

Note: Hyperplasia consists almost entirely of acidophils.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92982

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-1]

[Angiectasis TGLS = 5-1]

[Hyperplasia TGLS = 5-1]

* Spleen

Hyperplasia

Histiocytic, Focal, Marked

[Hyperplasia TGLS = 3-22]

* Thyroid Gland

C Cell

Adenoma

C Cell

Carcinoma

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 623

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88974

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- * Intestine Small, Jejunum
- * Thyroid Gland

OBSERVATIONS

- | | | | |
|--|---------------|-----------------------------------|-------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | | Degeneration | Cystic, Moderate |
| [Degeneration TGLS = 2-8] | | | |
| * Kidney | | Infarct | Moderate |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| [Infarct TGLS = 6-5] | | | |
| * Liver | | Basophilic Focus | |
| | | Congestion | Marked |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 10-2, 12-2] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| | Deep Cervical | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 623

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-88974

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------|------------------------|----------------------|
| [Leukemia Mononuclear TGLS = 4-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-3] | | | |
| * Mammary Gland | | Hyperplasia | Mild |
| [Hyperplasia TGLS = 1-8] | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Nose | | Inflammation | Suppurative, Minimal |
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Stomach, Forestomach | | Edema | Moderate |
| | | Ulcer | Mild |
| [Ulcer TGLS = 11-22] | | | |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------|---------------------------|-------------------|------------------------|
| * Adrenal Medulla | * Bone | * Clitoral Gland | * Esophagus |
| * Heart | * Intestine Large, Rectum | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Stomach, Forestomach |
| * Trachea | * Uterus | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Bone Marrow | * Eye | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Lymph Node, Mesenteric | * Pancreas | * Stomach, Glandular |
| * Thymus | * Thyroid Gland | * Urinary Bladder | |

OBSERVATIONS

| | | | |
|---|---------------------------|---------------------------|--------------------|
| * Adrenal Cortex | | Infiltration Cellular | Mixed Cell, Mild |
| Blood Vessel | | Thrombosis | Moderate |
| Note: Larger blood vessels in Harderian gland tissue show thrombosis. | | | |
| * Brain | | Hemorrhage | Focal, Mild |
| [Hemorrhage TGLS = 8-1] | | | |
| * Harderian Gland | | Histiocytic Sarcoma | |
| * Liver | Bile Duct | Histiocytic Sarcoma | |
| | | Hyperplasia | Mild |
| | | Infarct | Multiple, Moderate |
| | Centrilobular, Hepatocyte | Necrosis | Marked |
| | | Thrombosis | Moderate |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Infarct TGLS = 3-6, 4-21] | | | |
| [Thrombosis TGLS = 3-6] | | | |
| * Lung | | Histiocytic Sarcoma | |
| [Histiocytic Sarcoma TGLS = 6-2] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Fibrosis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 639

DOSE: 125 MG/L

DISP: Natural Death

HISTO: 00-89510

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 1-8]

* Skin

Subcut Tiss

Histiocytic Sarcoma

[Histiocytic Sarcoma TGLS = 7-22]

* Spleen

Hematopoietic Cell Proliferation

Marked

[Hematopoietic Cell Proliferation TGLS = 2-6]

PRIMARY CAUSE OF DEATH

- Liver Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---------------------------|---------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Necrosis | Focal, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Pancreatic | Pigmentation | Minimal |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Polyp Stromal | |
| [Polyp Stromal TGLS = 3-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------------------|------------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| [Hyperplasia TGLS = 4-6] | | | |
| Lymph Node | Pancreatic | Pigmentation | Minimal |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21, 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| | Rathkes Cleft | Hemorrhage | Moderate |
| [Angiectasis TGLS = 6-1] | | | |
| [Degeneration TGLS = 6-1] | | | |
| [Hemorrhage TGLS = 6-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92984

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicle

Mineralization

Focal, Minimal

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92985

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Lung | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|-----------------------------------|-----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 3-6] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Ectasia TGLS = 4-3] | | | |
| [Hyperplasia TGLS = 4-3] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hemorrhage | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92985

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-1]

[Hemorrhage TGLS = 5-1]

* Spleen

* Thyroid Gland

C Cell

Follicle

Hematopoietic Cell Proliferation

Hyperplasia

Mineralization

Mild

Minimal

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 433

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 99-88020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|------------------------------------|---|-----------------------------|
| * Kidney | | Inflammation Nephropathy | Chronic, Moderate Marked |
| [Inflammation TGLS = 3-5] | | | |
| [Nephropathy TGLS = 3-5] | | | |
| * Liver | Hepatocyte Hepatocyte, Midzonal | Basophilic Focus Necrosis Vacuolization Cytoplasmic | Focal, Minimal Moderate |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 2-3] | | | |
| * Pancreas | Duct | Cyst | Focal, Minimal |
| * Pituitary Gland | Rathkes Cleft | Cyst | Moderate |
| * Stomach, Forestomach | | Erosion | Mild |
| | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Chronic, Moderate |
| | | Ulcer | Mild |
| [Hyperplasia TGLS = 5-21] | | | |
| [Ulcer TGLS = 4-21] | | | |
| * Stomach, Glandular | | Inflammation | Chronic, Mild |
| | | Necrosis | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 433

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 99-88020

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 5-21]

[Necrosis TGLS = 4-21]

* Thymus

* Thyroid Gland

C Cell

Follicular Cel

Follicle

Cyst

Hyperplasia

Hypertrophy

Mineralization

Mild

Mild

Minimal

Focal, Minimal

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Kidney Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 541

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|--|----------------------------------|--------------------------|
| * Adrenal Cortex | | Hematopoietic Cell Proliferation | Mild |
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| | [Pheochromocytoma Malignant TGLS = 3-23] | | |
| * Intestine Small, Duodenum | | Amyloid Deposition | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| | [Hepatodiaphragmatic Nodule TGLS = 7-25] | | |
| | [Mixed Cell Focus TGLS = 6-6] | | |
| | [Vacuolization Cytoplasmic TGLS = 6-6] | | |
| * Lung | | Hyperplasia | Histiocytic, Mild |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| | [Hemorrhage TGLS = 8-3] | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| | [Hyperplasia TGLS = 9-5] | | |
| * Mammary Gland | | Carcinoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 541

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88442

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---------------------------|--|----------------------------------|----------------------------|
| [Carcinoma TGLS = 2-22] | | | |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLS = 5-24] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Skin | Subcut Tiss | Carcinoma | Metastatic (Mammary Gland) |
| [Carcinoma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Stomach, Forestomach | | Ulcer | Moderate |
| [Ulcer TGLS = 15-26] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| PRIMARY CAUSE OF DEATH | - Skin Subcut Tiss Carcinoma Mammary Gland | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92986

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------------------|---------------------|
| * Clitoral Gland | | Inflammation | Chronic, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| [Clear Cell Focus TGLS = 3-6] | | | |
| * Lung | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Polyp Stromal | |
| [Polyp Stromal TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92987

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Nose | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

- | | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- | | | | |
|---|------------|---------------------------|-----------------|
| * Adrenal Cortex | | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Focal, Moderate |
| [Hemorrhage TGLS = 5-10] | | | |
| [Vacuolization Cytoplasmic TGLS = 5-10] | | | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Clitoral Gland | | Adenoma | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Mixed Cell Focus | |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Dilatation TGLS = 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Ovary | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92987

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|----------------|----------------------|---------------------|
| * Pancreas | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 423

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 99-87897

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---|---------------------------|----------------------|
| * Clitoral Gland | | Hyperplasia | Cystic, Focal, Mild |
| * Kidney | Renal Tubule | Pigmentation | Mild |
| * Liver | Hepatocyte, Periportal | Infiltration Cellular | Mixed Cell, Mild |
| | [Vacuolization Cytoplasmic TGLS = 5-21] | Vacuolization Cytoplasmic | Moderate |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Pancreatic | Pigmentation | Mild |
| * Pituitary Gland | Pars Distalis | Angiectasis | Moderate |
| | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| | [Angiectasis TGLS = 6-1] | | |
| | [Hyperplasia TGLS = 6-1] | | |
| * Thymus | | Angiectasis | Mild |
| | [Angiectasis TGLS = 4-3] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| Tooth | Peridont Tiss | Inflammation | Chronic, Moderate |
| | | Odontoma | |

Note: Tooth: Presence of hair and vegetable matter in inflammatory lesion (TGL 2) indicates that lesion is at least partially a foreign body reaction.

[Inflammation TGLS = 2-22]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 423

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 99-87897

ORGAN AND ACCOUNTABLE SITE STATUS

[Odontoma TGLS = 3-23]

PRIMARY CAUSE OF DEATH

- Tooth Odontoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92988

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|-------------|---------------------------|---------------------|
| * Heart | | Infiltration Cellular | Mixed Cell, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 3-6, 3-21] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Mild |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| [Hyperplasia TGLS = 2-3] | | | |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92989

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|-------------|---|------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Mammary Gland | | Hyperplasia | Mild |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pituitary Gland | | Angiectasis | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| [Hyperplasia TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92990

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------|--|--|---|
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Nephropathy | Mild Minimal |
| * Liver | | Basophilic Focus Hyperplasia Infiltration Cellular | Histiocytic, Focal, Minimal Mixed Cell, Mild |
| | [Basophilic Focus TGLS = 3-6] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | [Alveolar/Bronchiolar Adenoma TGLS = 7-24] | | |
| Lymph Node | Mediastinal Mediastinal Pancreatic Pancreatic | Ectasia Hemorrhage Hemorrhage Hyperplasia | Moderate Moderate Moderate Histiocytic, Mild |
| | [Ectasia TGLS = 6-3] | | |
| | [Hemorrhage TGLS = 2-7] | | |
| | [Hemorrhage TGLS = 6-3] | | |
| * Mammary Gland | | Dilatation Fibroadenoma | Marked |
| | [Dilatation TGLS = 1-21, 8-8] | | |
| | [Fibroadenoma TGLS = 1-21] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92990

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|----------|----------------|-----------------|
| Mesentery [Necrosis TGLS = 4-22, 5-23] | Fat | Necrosis | Focal, Moderate |
| * Pituitary Gland | | Angiectasis | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92991

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * 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 | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Uterus | | |

MISSING

| | |
|--------------------------|-------------------|
| * Lymph Node, Mandibular | * Urinary Bladder |
|--------------------------|-------------------|

OBSERVATIONS

| | | | |
|--|---|--|---|
| * Adrenal Medulla [Pheochromocytoma Benign TGLS = 4-10] | | Pheochromocytoma Benign | |
| * Brain [Compression TGLS = 9-1] | | Compression | Focal, Moderate |
| * Eye Note: Optic nerve is on slide 1, ventral to brain. | | | |
| * Kidney | | Inflammation Nephropathy Basophilic Focus | Chronic, Minimal Mild |
| * Liver | Bile Duct | Hepatodiaphragmatic Nodule Hyperplasia Hyperplasia Infiltration Cellular Vacuolization Cytoplasmic | Moderate Minimal Histiocytic, Focal, Minimal Mixed Cell, Mild Focal, Mild |
| | Hepatocyte [Basophilic Focus TGLS = 7-6] [Hepatodiaphragmatic Nodule TGLS = 6-23] | | |
| * Lung | | Hyperplasia | Histiocytic, Focal, Mild |
| * Mammary Gland | | Dilatation Fibroadenoma Hyperplasia | Mild Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92991

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-8]

[Fibroadenoma TGLS = 3-21]

[Hyperplasia TGLS = 1-8]

Mesentery

Fat

Necrosis

Focal, Minimal

[Necrosis TGLS = 5-22]

* Pancreas

Acinus

Atrophy

Focal, Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 8-1]

* Spleen

Hematopoietic Cell Proliferation

Mild

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 636

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * 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, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------|---------------------------|--------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 2-1] | | | |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| | Hepatocyte | Karyomegaly | Moderate |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Vacuolization Cytoplasmic TGLS = 1-21] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Mild |
| | | Hyperplasia | Mild |
| Mesentery | | Inflammation | Chronic, Focal, Mild |
| * Pituitary Gland | Pars Distalis | Carcinoma | |
| [Carcinoma TGLS = 3-1-1] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 636

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89511

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

Endometrium

Polyp Stromal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92992

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Clitoral Gland | | Adenoma | |
| | | Inflammation | Chronic, Mild |
| [Inflammation TGLS = 3-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 5-5] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92992

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * 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 | * Nose | * Ovary |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Parathyroid Gland

OBSERVATIONS

| | | | |
|-------------------|--|---------------------------|------------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Eye | | Cataract | Moderate |
| | Retina | Degeneration | Moderate |
| | [Cataract TGLS = 5-44] | | |
| | [Degeneration TGLS = 5-44] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| | [Dilatation TGLS = 1-21, 2-22] | | |
| | [Fibroadenoma TGLS = 1-21, 2-22, 3-23] | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Moderate |
| | Pars Nervosa | Hyperplasia | Atypical, Focal, Moderate |
| | Note: Focal hyperplasia of pars nervosa apparently is gliosis. | | |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92993

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-6, 4-24]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 298

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * 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, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|-----------------------------------|-----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Clitoral Gland | | Hyperplasia | Cystic, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Hepatodiaphragmatic Nodule TGLS = 4-23] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Pigmentation | Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 1-21, 2-22, 3-8] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Spleen | | Angiectasis | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 298

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92994

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Fibrosis
Hyperplasia

Focal, Moderate
Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-92995

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

OBSERVATIONS

| | | | |
|---|---------------------------|-------------------------------|-------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Compression | Focal, Marked |
| | | Hemorrhage | Focal, Mild |
| | Meninges | Leukemia Mononuclear | |
| [Compression TGLS = 4-1] | | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Cholangiocarcinoma | |
| | Bile Duct | Cyst | Mild |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Cholangiocarcinoma TGLS = 3-6, 6-21] | | | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 734

DOSE: 125 MG/L

DISP: Moribund Sacrifice

HISTO: 00-92995

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------------|---------|----------------------|-----------------------|
| * Mammary Gland | | Dilatation | Moderate |
| | | Hyperplasia | Mild |
| [Dilatation TGLS = 1-8] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | | Angiectasis | Marked |
| [Angiectasis TGLS = 5-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| Tooth | Dentine | Malformation | Moderate |
| * Uterus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Angiectasis

CONTRIBUTORY CAUSE OF DEATH

- Liver Cholangiocarcinoma;Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92996

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * 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, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------|-----------------------|------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 2-21-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 7-6] | | | |
| * Lung | | Infiltration Cellular | Mixed Cell, Mild |
| [Infiltration Cellular TGLS = 8-2] | | | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 10-3] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21-2, 3-22, 4-23, 5-24] | | | |
| [Fibroadenoma TGLS = 2-21-2, 3-22, 4-23] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 9-1] | | | |
| Skeletal Muscle | | Rhabdomyosarcoma | |
| [Rhabdomyosarcoma TGLS = 2-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 737

DOSE: 125 MG/L

DISP: Terminal Sacrifice

HISTO: 00-92996

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|-------------|----------------------------------|--------------|
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

[Hyperplasia TGLS = 6-7]

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 2 is a conglomeration of lesions of several tissues, including skeletal muscle, mammary gland, and clitoral gland.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92997

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| Peripheral Nerve | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|---------------|-------------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | Compression | Focal, Mild |
| [Compression TGLS = 5-1] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Mild |
| [Dilatation TGLS = 1-8, 2-21, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| [Hyperplasia TGLS = 1-8, 3-22] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92997

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92998

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|----------------|----------------------------|-----------------------------|
| * Adrenal Cortex | | Fibrosis | Focal, Mild |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 2-22] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | Mild |
| | | Infiltration Cellular | Polymorphnuclr, Focal, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 4-21] | | | |
| [Infiltration Cellular TGLS = 4-21] | | | |
| * Lung | | Hemorrhage | Focal, Moderate |
| | Alveolar Epith | Hyperplasia | Focal, Moderate |
| [Hemorrhage TGLS = 6-23] | | | |
| [Hyperplasia TGLS = 6-23] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92998

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Hemorrhage

Focal, Moderate

Pars Distalis

Hyperplasia

Focal, Moderate

[Hemorrhage TGLS = 7-1]

[Hyperplasia TGLS = 7-1]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92999

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|-----------------------|----------------------|
| * Brain | | Compression | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| * Lung | | Inflammation | Chronic, Focal, Mild |
| [Inflammation TGLS = 4-22] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Dilatation TGLS = 6-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Ovary | Periovarn Tiss | Cyst | Marked |
| [Cyst TGLS = 3-7] | | | |
| * Pancreas | Duct | Cyst | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-92999

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Follicle
Endometrium
Endometrium

Mineralization
Hyperplasia
Polyp Stromal

Focal, Minimal
Cystic, Mild

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 514

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose |
| Oral Mucosa | * Ovary | Oviduct | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

| | | | |
|---------------------------|---------------|-----------------------|-------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| * Lung | | Congestion | Moderate |
| | | Hyperplasia | Histiocytic, Mild |
| [Congestion TGLS = 3-2] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Moderate |
| * Thymus | | Hemorrhage | Mild |
| [Hemorrhage TGLS = 2-3] | | | |
| * Uterus | Endometrium | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93000

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------|-----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Ovary | Interstit Cell | Hyperplasia | Moderate |
| * Pituitary Gland | Pars Distalis | Cyst | Moderate |
| | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| [Cyst TGLS = 3-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 636

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------|----------------------------------|---------------------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| Note: Distribution of cytoplasmic vacuolization of hepatocytes was not uniform among various areas of the sections of liver tissue. | | | |
| | | | [Basophilic Focus TGLS = 2-6] |
| * Mammary Gland | | Dilatation | Mild |
| | | Hyperplasia | Mild |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | | Edema | Moderate |
| | Epithelium | Hyperplasia | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 306 | TRT#: 6 DOSE: 1000MG/L | SEX: Female DISP: Moribund Sacrifice | DAY ON TEST: 636 HISTO: 00-89512 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - Pituitary Gland Pars Distalis Adenoma | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93001

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---------------------------|--------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Clitoral Gland | | Hyperplasia | Cystic, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 4-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93001

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93002

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Pituitary Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

| | | | |
|--|--------------------|---|------------------------|
| * Clitoral Gland [Degeneration TGLS = 5-8] | | Degeneration | Cystic, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver [Basophilic Focus TGLS = 2-6] | | Basophilic Focus Clear Cell Focus Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland [Dilatation TGLS = 4-8] [Fibroadenoma TGLS = 1-21] | | Dilatation Fibroadenoma | Mild |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Thyroid Gland | C Cell Follicle | Hyperplasia Mineralization | Mild Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 636

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 |
| * Nose | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

| | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------------|-------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Hyperplasia | Focal, Mild |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Cholangiofibrosis | Marked |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Marked |
| [Cholangiofibrosis TGLS = 4-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 5-21] | | | |
| [Leukemia Mononuclear TGLS = 4-6, 4-21] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |

Note: TGL 9-23 is axillary lymph node.

[Leukemia Mononuclear TGLS = 9-23]

[Leukemia Mononuclear TGLS = 7-3]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 636

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89504

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------|----------------------|---------------------|
| [Leukemia Mononuclear TGLS = 8-22] | | | |
| [Leukemia Mononuclear TGLS = 3-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-5] | | | |
| * Mammary Gland | | Dilatation | Mild |
| Mesentery | | Leukemia Mononuclear | |
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | | Leukemia Mononuclear | |
| * Parathyroid Gland | | Hyperplasia | Focal, Moderate |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| | Rathkes Cleft | Hemorrhage | Mild |
| [Degeneration TGLS = 10-1] | | | |
| [Hemorrhage TGLS = 10-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicle | Mineralization | Focal, Mild |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93003

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------------|----------------|-------------------------------|-------------------|
| * Clitoral Gland | | Adenoma | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 4-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 2-21, 3-22] | | | |
| [Fibroadenoma TGLS = 1-8, 2-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 5-23] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 310 | TRT#: 6 DOSE: 1000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 737 HISTO: 00-93003 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 699

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------|------------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Focal, Mild |
| | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| | | | |
| [Dilatation TGLS = 1-21] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-22] | | | |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 699

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90234

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

OBSERVATIONS

| | | | |
|--------------------------|--|-----------------------------------|-----------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Minimal |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Hepatodiaphragmatic Nodule | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| | [Hepatodiaphragmatic Nodule TGLS = 9-25] | | |
| | [Leukemia Mononuclear TGLS = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 11-3] | | |
| * Lymph Node, Mandibular | | Leukemia Mononuclear | |
| | Note: Mandibular lymph node is present on slide 8. | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | [Fibroadenoma TGLS = 1-21, 2-22, 3-23] | | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90401

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 7-24]

| | | | |
|------------|--------|----------------------|-------------|
| * Ovary | | Leukemia Mononuclear | |
| Oviduct | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | | Leukemia Mononuclear | |

[Atrophy TGLS = 8-7]

[Leukemia Mononuclear TGLS = 8-7]

| | | | |
|-------------------|---------------|--------------|-------------------------|
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Moderate |
| | Rathkes Cleft | Hemorrhage | Moderate |

[Degeneration TGLS = 10-1]

[Hemorrhage TGLS = 10-1]

| | | | |
|----------|--|----------------------|--|
| * Spleen | | Leukemia Mononuclear | |
|----------|--|----------------------|--|

[Leukemia Mononuclear TGLS = 5-6]

| | | | |
|------------------------|------------|----------------------|----------|
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |

[Hyperplasia TGLS = 12-4, 12-26]

| | | | |
|----------|--|----------------------|--|
| * Thymus | | Leukemia Mononuclear | |
|----------|--|----------------------|--|

| | | | |
|-----------------|----------------|----------------|----------------|
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

| | | | |
|----------|--|----------------------|--|
| * Uterus | | Leukemia Mononuclear | |
|----------|--|----------------------|--|

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

Animal Note: Lymph Node Pancreatic is normal.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93004

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * 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 | * Nose |
| * Ovary | * Pancreas | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Parathyroid Gland

OBSERVATIONS

| | | | |
|--------------------------------------|-------------|----------------------|--------------------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 8-1] | | | |
| * Clitoral Gland | | Degeneration | Cystic, Moderate |
| [Degeneration TGLS = 1-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Angiectasis | Focal, Mild |
| | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 7-3] | | | |
| [Leukemia Mononuclear TGLS = 7-3] | | | |
| [Leukemia Mononuclear TGLS = 6-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93004

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Mammary Gland

Dilatation

Mild

Fibroadenoma

[Dilatation TGLS = 2-8, 3-22]

[Fibroadenoma TGLS = 3-22]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 9-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93005

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | Lacrimal Gland | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------|----------------|-----------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | | |
| | | | |
| [Dilatation TGLS = 2-21] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93006

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|-----------------------|---------------------------|
| * Clitoral Gland | | Hyperplasia | Cystic, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Moderate |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| | Pars Distalis | Hyperplasia | Focal, Marked |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 737

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93006

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93007

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Kidney | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|------------------------------|---|--|
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 5-8] | | | |
| * Liver | Bile Duct | Basophilic Focus Hyperplasia Hyperplasia Infiltration Cellular | Minimal Histiocytic, Focal, Minimal Mixed Cell, Mild |
| * Mammary Gland | | Dilatation Fibroadenoma Hyperplasia | Marked Moderate |
| [Dilatation TGLS = 1-8, 2-21, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma Angiectasis | Marked |
| [Adenoma TGLS = 4-1] | | | |
| [Angiectasis TGLS = 4-1] | | | |
| * Thyroid Gland | C Cell C Cell Follicle | Adenoma Hyperplasia Mineralization | Moderate Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93007

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93008

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|----------------|-----------------------|-------------------------|
| * Harderian Gland | | Inflammation | Chronic, Focal, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| [Hyperplasia TGLS = 5-3] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Hemorrhage TGLS = 6-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93008

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 547

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|------------------------|--------------------------|-------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Clitoral Gland | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Islets, Pancreatic | * Lymph Node, Mandibular | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | * Uterus | | |

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Thyroid Gland | |

OBSERVATIONS

| | | | |
|------------------------------------|---------------|--------------------|-----------------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 8-1] | | | |
| * Kidney | | Hyperplasia | Lymphoid, Mild |
| | | Nephropathy | Mild |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | | Congestion | Moderate |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| * Lung | | Congestion | Moderate |
| [Congestion TGLS = 4-2] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Lymph Node, Mesenteric | | Lymphoma Malignant | |
| * Mammary Gland | | Fibroadenoma | Multiple |
| | | Hyperplasia | Mild |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |
| * Spleen | | Pigmentation | Focal, Moderate |
| * Thymus | | Hemorrhage | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 547

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88458

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 6-3]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93009

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|--------------|--|-----------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 9-1] | | | |
| * Clitoral Gland | | Inflammation | Chronic, Moderate |
| [Inflammation TGLS = 4-24] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Nephropathy | Mild Minimal |
| | | Basophilic Focus | |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 5-6] | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Pigmentation | Mild |
| [Hyperplasia TGLS = 7-3] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 1-21, 2-22, 3-23, 4-24, 10-8] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22, 3-23, 4-24] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93009

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 10-8]

| | | | |
|------------|------|------|--------------------------|
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
|------------|------|------|--------------------------|

| | | | |
|-------------------|---------------|---------|--|
| * Pituitary Gland | Pars Distalis | Adenoma | |
|-------------------|---------------|---------|--|

[Adenoma TGLS = 8-1]

| | | | |
|-----------------|--------|-------------|----------|
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
|-----------------|--------|-------------|----------|

| | | | |
|----------------|-------------|---------|--|
| Follicular Cel | Hypertrophy | Minimal | |
|----------------|-------------|---------|--|

| | | | |
|----------|----------------|----------------|--|
| Follicle | Mineralization | Focal, Minimal | |
|----------|----------------|----------------|--|

| | | | |
|----------|-------------|-------------|--------------|
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
|----------|-------------|-------------|--------------|

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 6 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 651

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|-----------------------------------|----------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 1-8] | | | |
| * Kidney | | Infarct | Moderate |
| | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| [Infarct TGLS = 5-5] | | | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Marked |
| [Leukemia Mononuclear TGLS = 2-6] | | | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 7-3] | | | |
| [Leukemia Mononuclear TGLS = 7-3] | | | |
| [Leukemia Mononuclear TGLS = 4-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 651

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89668

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------|----------------------|------------------------|
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Minimal |
| * Skin | Subcut Tiss | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93010

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Mammary Gland | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|-------------------------------|-------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Moderate |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Clitoral Gland | | Degeneration | Cystic, Moderate |
| [Degeneration TGLS = 1-8] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Degeneration | Cystic, Focal, Moderate |
| [Adenoma TGLS = 4-1] | | | |
| [Degeneration TGLS = 4-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93010

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93011

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|--------------------------------|---|---|
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Nephropathy | Mild Minimal |
| * Liver | Bile Duct | Basophilic Focus Hyperplasia Hyperplasia Infiltration Cellular | Mild Histiocytic, Focal, Minimal Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Mammary Gland | | Dilatation Fibroadenoma | Marked |
| [Dilatation TGLS = 2-8, 3-21] | | | |
| [Fibroadenoma TGLS = 3-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis Pars Distalis | Adenoma Hemorrhage | Focal, Moderate |
| [Adenoma TGLS = 5-1] | | | |
| [Hemorrhage TGLS = 5-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thyroid Gland | C Cell Follicular Cel | Hyperplasia Hypertrophy | Moderate Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 322 | TRT#: 6 DOSE: 1000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 736 HISTO: 00-93011 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93012

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|--|----------------------------|----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | Mild |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Basophilic Focus TGLS = 2-6, 2-21] | | |
| | [Hepatodiaphragmatic Nodule TGLS = 3-21] | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Chronic, Focal, Mild |
| | [Hyperplasia TGLS = 5-23] | | |
| | [Inflammation TGLS = 5-23] | | |
| * Mammary Gland | | Dilatation | Mild |
| | [Dilatation TGLS = 1-8] | | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93012

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Follicle
Endometrium
Endometrium

Mineralization
Hyperplasia
Polyp Stromal

Focal, Mild
Cystic, Minimal

Note: Uterine stromal polyp is necrotic and hemorrhagic.

[Polyp Stromal TGLS = 4-22]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 573

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|--------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Esophagus | * Eye | * Harderian Gland |
| * Heart | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Islets, Pancreatic | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|--------------------------|----------------------------|----------|
| * Intestine Large, Cecum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Stomach, Glandular | * Thyroid Gland | | |

OBSERVATIONS

| | | | |
|---|---------------------------|----------------------------------|------------------------|
| * Clitoral Gland [Degeneration TGLS = 1-28, 2-28] | | Degeneration | Cystic, Moderate |
| * Liver | Centrilobular, Hepatocyte | Infiltration Cellular | Mixed Cell, Moderate |
| | Centrilobular, Hepatocyte | Necrosis | Moderate |
| * Lung | Mediastinum | Vacuolization Cytoplasmic | Moderate |
| | | Edema | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Edema TGLS = 13-3] | | | |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Lymphoid, Minimal |
| [Hemorrhage TGLS = 14-27] | | | |
| Mesentery | | Mesothelioma Malignant | |
| [Mesothelioma Malignant TGLS = 7-21, 8-22, 10-24, 11-25, 12-26] | | | |
| Skeletal Muscle | | Mesothelioma Malignant | Metastatic (Mesentery) |
| [Mesothelioma Malignant TGLS = 9-23, 12-26] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |
| [Hematopoietic Cell Proliferation TGLS = 3-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 573

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88788

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Hyperplasia

Moderate

Perforation

Moderate

[Hyperplasia TGLS = 15-4, 15-29]

[Perforation TGLS = 15-4, 15-29]

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 5-7-1]

PRIMARY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 615

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88939

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|-------------------|-----------|------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Clitoral Gland |
| * Esophagus | * Harderian Gland | * Heart | * Islets, Pancreatic |
| * Mammary Gland | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

| | |
|--------------------------|--------------------------|
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric |
|--------------------------|--------------------------|

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Thyroid Gland |

OBSERVATIONS

| | | | |
|--|---------------------------|----------------------------|--------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Mild |
| [Hemorrhage TGLS = 9-1-1] | | | |
| * Kidney | | Cyst | Mild |
| [Cyst TGLS = 3-5] | | | |
| * Liver | | Hepatodiaphragmatic Nodule | Moderate |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| [Hepatodiaphragmatic Nodule TGLS = 5-21] | | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Marked |
| [Angiectasis TGLS = 8-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 1-6] | | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| | Endometrium | Polyp Stromal | |
| [Polyp Stromal TGLS = 10-23] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 615

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88939

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|-------------------------------------|----------------------|-----------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Congestion | Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | [Congestion TGLS = 4-6] | | |
| | [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | [Dilatation TGLS = 1-8, 2-21] | | |
| | [Fibroadenoma TGLS = 2-21] | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93013

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-93014

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|-------------------|-------------------|
| * Bone | * Brain | * Esophagus | * Harderian Gland |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Nose | * Salivary Glands |
| * Skin | * Trachea | * Urinary Bladder | |

MISSING

| | | | |
|--------------------------|---------------------|----------|--|
| * Lymph Node, Mandibular | * Parathyroid Gland | * Thymus | |
|--------------------------|---------------------|----------|--|

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Kidney | * Ovary |
| * Pancreas | * Thyroid Gland | | |

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | | Degeneration | Cystic, Moderate |
| [Degeneration TGLS = 1-8] | | | |
| * Heart | | Leukemia Mononuclear | |
| * Liver | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-6] | | Vacuolization Cytoplasmic | Moderate |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 5-24] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22, 4-23, 5-24] | | | |
| [Hyperplasia TGLS = 6-8] | | | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 11-26] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-93014

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Hemorrhage

Moderate

Leukemia Mononuclear

[Hemorrhage TGLS = 7-25]

[Leukemia Mononuclear TGLS = 8-6]

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

* Stomach, Glandular

Erosion

Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 511

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |
| Vagina | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|----------------------------------|-------------------|
| * Adrenal Cortex | | Angiectasis | Mild |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 1-21] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | Renal Tubule | Pigmentation | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 6-6] | | | |
| * Lung | | Hyperplasia | Histiocytic, Mild |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| [Hyperplasia TGLS = 4-7] | | | |
| * Mammary Gland | | Ectasia | Mild |
| Mesentery | Fat | Necrosis | Moderate |
| [Necrosis TGLS = 2-22] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Infiltration Cellular | Focal, Mild |
| [Adenoma TGLS = 7-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Marked |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 511

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88354

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 5-6]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

- Clitoral Gland Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93015

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|----------------------------------|-----------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| [Ectasia TGLS = 4-3] | | | |
| * Mammary Gland | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| [Fibroadenoma TGLS = 2-21] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93015

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93016

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| | | Fibrosis | Mild |
| | | Hyperplasia | Mild |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| [Fibrosis TGLS = 1-8] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93016

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 4-1]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Moderate

Follicle

Mineralization

Focal, Minimal

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---|---|---|
| ANIMAL ID: 331 | TRT#: 6 DOSE: 1000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 735 HISTO: 00-93017 |
|-----------------------|---|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|-----------------------------------|--------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 3-22] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Hemorrhage TGLS = 4-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93018

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|---------------|-------------------------------|----------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 7-1] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Moderate |
| | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 3-6, 3-22] | | | |
| [Mixed Cell Focus TGLS = 3-6] | | | |
| * Lung | | Metaplasia | Osseous, Focal, Mild |
| [Metaplasia TGLS = 5-23] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Ovary | | Cyst | Moderate |
| [Cyst TGLS = 2-7] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| [Atrophy TGLS = 4-7, 4-21] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93018

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 6-1]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93019

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|-------------|---------------------------|----------------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Mild |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | | Angiectasis | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Marked |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 2-21] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 6-6, 6-24] | | Vacuolization Cytoplasmic | Focal, Mild |
| [Vacuolization Cytoplasmic TGLS = 6-24] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 7-3] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93019

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-8, 3-22]

[Fibroadenoma TGLS = 3-22]

| | | | |
|------------------------------|----------------|----------------------------------|-----------------|
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 5-23] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Polyp Stromal | |
| [Polyp Stromal TGLS = 4-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 626

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89102

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------|----------------|---------------------------|----------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 2-1-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Mild |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Minimal |
| | | Vacuolization Cytoplasmic | Diffuse, Mild |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Inflammation | Chronic, Focal, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 587

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------|--------------|-------------------------------|-----------------------------|
| * Brain | | Compression | Focal, Marked |
| [Compression TGLS = 7-1] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Mediastinal | Pigmentation | Moderate |
| [Hemorrhage TGLS = 4-3] | | | |
| [Pigmentation TGLS = 4-3] | | | |
| * Mammary Gland | | Ectasia | Marked |
| | | Fibroadenoma | |
| [Ectasia TGLS = 1-8, 2-21] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 587

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88829

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 6-1]

Pars Distalis

Adenoma

* Thyroid Gland

C Cell

Carcinoma

C Cell

Hyperplasia

Mild

Follicle

Mineralization

Focal, Minimal

[Carcinoma TGLS = 5-3]

Tooth

Peridont Tiss

Inflammation

Chronic, Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93020

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Kidney | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|----------------|----------------------------|------------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| [Basophilic Focus TGLS = 6-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 5-23] | | | |
| * Lung | Peribronchiolr | Hyperplasia | Lymphoid, Mild |
| Lymph Node | Mediastinal | Histiocytic Sarcoma | |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 7-7] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Focal, Moderate |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93020

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Mild

Tissue NOS

Mediastinum

Histiocytic Sarcoma

* Uterus

Endometrium

Hyperplasia

Cystic, Moderate

[Hyperplasia TGLS = 4-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93021

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|---------------------------|------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 4-26] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 6-6] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 2-22, 3-23] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22, 3-23] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 5-24] | | | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Minimal |
| [Hemorrhage TGLS = 8-1] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 7-25] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---|---|---|
| ANIMAL ID: 337 | TRT#: 6 DOSE: 1000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 734 HISTO: 00-93021 |
|-----------------------|---|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|--|----------------|----------------|----------------|
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * 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, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|------------------------------|----------------------------------|--------------------------|
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Moderate |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 8-1] | | | |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 2-21] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Hemorrhage TGLS = 6-3] | Mediastinal | Hemorrhage | Moderate |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 1-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-22] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 703

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90402

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicular Cel

Carcinoma

C Cell

Hyperplasia

Moderate

Follicle

Mineralization

Focal, Minimal

* Uterus

Endometrium

Polyp Stromal

Multiple

[Polyp Stromal TGLS = 3-23]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93022

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------------------|-------------|-----------------------|------------------------------|
| * Bone Marrow | | Hyperplasia | Histiocytic, Focal, Mild |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 3-24] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 8-23] | | | |
| [Hyperplasia TGLS = 8-23] | | | |
| Lymph Node | Mediastinal | Infiltration Cellular | Mixed Cell, Moderate |
| [Infiltration Cellular TGLS = 4-3] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 2-22] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| [Hyperplasia TGLS = 1-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93022

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------------------------|----------------|----------------|------------------|
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Mild |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| | Rathkes Cleft | Hyperplasia | Cystic, Moderate |
| [Hemorrhage TGLS = 6-1] | | | |
| [Hyperplasia TGLS = 5-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 7-1] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93023

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|------------------------|-------------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Mild |
| * Clitoral Gland | | Adenoma | |
| | | Hyperplasia | Cystic, Mild |
| [Adenoma TGLS = 1-21] | | | |
| [Hyperplasia TGLS = 2-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 4-22, 5-8] | | | |
| [Fibroadenoma TGLS = 4-22] | | | |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 6-7] | | | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Moderate |
| | Pars Distalis | Hemorrhage | Focal, Mild |
| [Hemorrhage TGLS = 7-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93023

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 587

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Mammary Gland | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---------------|-------------------------------|-----------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | Renal Tubule | Pigmentation | Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
| * Lung | | Hyperplasia | Histiocytic, Mild |
| Lymph Node | Mediastinal | Angiectasis | Moderate |
| | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| | Pancreatic | Pigmentation | Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | | Ultimobranchial Cyst | Minimal |
| Tissue NOS | Mediastinum | Carcinoma | Metastatic (Zymbal'S Gland) |
| | Mediastinum | Cyst | Moderate |

Note: Metastatic lesion of Zymbal's gland carcinoma in mediastinum is on slide 3.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 587

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88830

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 2-3]

Tooth

Peridont Tiss

Inflammation

Chronic, Moderate

Malformation

[Inflammation TGLS = 1-22-1]

[Malformation TGLS = 1-22-1]

Zymbal's Gland

Carcinoma

[Carcinoma TGLS = 3-21]

PRIMARY CAUSE OF DEATH

- Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93024

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|----------------|-------------------------------|------------------------------|
| * Eye | | Cataract | Moderate |
| | Retina | Degeneration | Moderate |
| [Cataract TGLS = 1-44] | | | |
| * Harderian Gland | | Hyperplasia | Histiocytic, Focal, Minimal |
| Note: Harderian gland lesion is on slide 44. | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 6-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 7-24] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Dilatation TGLS = 3-8] | | | |
| [Fibroadenoma TGLS = 2-21, 4-22] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93024

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 8-1]

[Hyperplasia TGLS = 8-1]

* Spleen

[Hyperplasia TGLS = 5-6, 5-23]

* Thyroid Gland

C Cell

C Cell

Follicular Cel

Follicle

Hyperplasia

Adenoma

Hyperplasia

Hypertrophy

Mineralization

Histiocytic, Focal, Marked

Moderate

Mild

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93025

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|-----------------------------------|---------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Harderian Gland | | Metaplasia | Squamous, Focal, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 2-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93026

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Nose | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|----------------------|-------------------|
| * Clitoral Gland | | Adenoma | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Mild |
| | | Leukemia Mononuclear | |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93027

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|---|------------------------|-----------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Mild |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Liver | | Basophilic Focus | |
| | | Leukemia Mononuclear | |
| | [Basophilic Focus TGLS = 4-6, 4-21] | | |
| | [Leukemia Mononuclear TGLS = 4-6, 4-21] | | |
| * Lung | | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| | | Hyperplasia | Mild |
| | [Dilatation TGLS = 1-8] | | |
| | [Hyperplasia TGLS = 1-8] | | |
| * Pituitary Gland | Pars Distalis | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Focal, Moderate |
| | [Angiectasis TGLS = 3-1] | | |
| | [Hyperplasia TGLS = 3-1] | | |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 2-6] | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93027

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Follicle
Endometrium

Mineralization
Hyperplasia

Focal, Minimal
Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 699

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-90235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------|----------|---------------------|----------------------|
| * Bone | * Brain | * Esophagus | * Harderian Gland |
| * Islets, Pancreatic | * Kidney | * Parathyroid Gland | * Stomach, Glandular |
| * Trachea | Vagina | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Thyroid Gland |

OBSERVATIONS

| | | | |
|--------------------------------------|---------------------------|---------------------------|----------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Minimal |
| | Centrilobular, Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 7-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 18-2] | | | |
| Lymph Node | Bronchial | Leukemia Mononuclear | |
| | Deep Cervical | Leukemia Mononuclear | |
| | Iliac | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |

Note: TGL 20-30 is axillary lymph node.

[Leukemia Mononuclear TGLS = 19-29]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 699

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-90235

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 14-25]

[Leukemia Mononuclear TGLS = 13-24]

[Leukemia Mononuclear TGLS = 6-33]

[Leukemia Mononuclear TGLS = 20-30]

[Leukemia Mononuclear TGLS = 17-28]

[Leukemia Mononuclear TGLS = 15-26]

* Lymph Node, Mesenteric

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 11-31]

* Mammary Gland

Dilatation

Mild

Fibroadenoma

[Fibroadenoma TGLS = 2-21]

Mesentery

Leukemia Mononuclear

Fat

Necrosis

Focal, Moderate

[Leukemia Mononuclear TGLS = 6-33, 14-25]

[Necrosis TGLS = 12-23]

* Nose

Leukemia Mononuclear

* Ovary

Leukemia Mononuclear

* Pancreas

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-33]

* Pituitary Gland

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 21-1]

* Salivary Glands

Leukemia Mononuclear

* Skin

Subcut Tiss

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-21]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6, 5-22]

* Stomach, Forestomach

Leukemia Mononuclear

* Thymus

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 15-26]

Tissue NOS

Mediastinum

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 15-26, 16-27, 19-29]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 699

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-90235

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Leukemia Mononuclear

* Uterus

Leukemia Mononuclear

Endometrium

Polyp Stromal

Multiple

[Leukemia Mononuclear TGLS = 9-7, 10-32]

[Polyp Stromal TGLS = 9-7, 10-32]

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93028

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|-----------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6, 6-22] | | | |
| Lymph Node | Pancreatic | Pigmentation | Minimal |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| [Degeneration TGLS = 5-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |
| Vagina | | Cyst | Moderate |
| | | Inflammation | Suppurative, Moderate |
| [Cyst TGLS = 4-7] | | | |
| [Inflammation TGLS = 4-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93028

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93029

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * 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 | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|---------------------------------------|----------------------------|-------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Clitoral Gland | | Degeneration | Cystic, Moderate |
| [Degeneration TGLS = 1-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| | Centrilobular, Hepatocyte, Periportal | Vacuolization Cytoplasmic | Mild |
| [Hepatodiaphragmatic Nodule TGLS = 6-21] | | | |
| [Leukemia Mononuclear TGLS = 4-6, 4-21, 4-22, 4-23] | | | |
| [Vacuolization Cytoplasmic TGLS = 7-22] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | Duct | Cyst | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 734

DOSE: 1000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93029

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|--------------------------------------|--|-----------------------------------|
| * Spleen [Leukemia Mononuclear TGLS = 3-6] | Pars Distalis | Hyperplasia Leukemia Mononuclear | Focal, Moderate |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Mild Minimal Focal, Minimal |
| * Uterus [Polyp Stromal TGLS = 5-24] | Endometrium | Leukemia Mononuclear Polyp Stromal | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 615

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88940

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-------------------|-------------------|------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Islets, Pancreatic |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney | * Thyroid Gland |

OBSERVATIONS

| | | | |
|-------------------------------------|---------------------------|---------------------------|-----------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 9-1] | | | |
| [Leukemia Mononuclear TGLS = 9-1] | | | |
| * Clitoral Gland | | Adenoma | |
| [Adenoma TGLS = 2-7-1] | | | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Marked |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-2] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 3-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 615

DOSE: 1000MG/L

DISP: Natural Death

HISTO: 00-88940

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 8-1]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6]

* Stomach, Glandular

Erosion

Mild

[Erosion TGLS = 10-4]

PRIMARY CAUSE OF DEATH

- Brain Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 401

DOSE: 1000MG/L

DISP: Moribund Sacrifice

HISTO: 99-87772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------|------------------------|----------------------------------|----------------------|
| * Heart | | Infiltration Cellular | Mixed Cell, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| * Mammary Gland | | Ectasia | Mild |
| | [Ectasia TGLS = 1-8] | | |
| * Pancreas | Duct | Cyst | Focal, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Moderate |
| | | Inflammation | Chronic, Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Moderate |
| | | Inflammation | Chronic, Moderate |

Note: Uterus is prolapsed along with inflammation, but "prolapse" is not an available diagnosis in TDMS terminology.

[Hyperplasia TGLS = 3-21]

[Inflammation TGLS = 3-21]

PRIMARY CAUSE OF DEATH

- Uterus Inflammation

CONTRIBUTORY CAUSE OF DEATH

- Uterus Endometrium Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 475

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88180

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | Skeletal Muscle | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|---------------|-----------------------|--------------------------|
| * Brain | | Compression | Focal, Marked |
| [Compression TGLS = 4-1] | | | |
| * Kidney | Renal Tubule | Pigmentation | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Pancreatic | Hemorrhage | Mild |
| | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| | Pancreatic | Pigmentation | Mild |
| [Hemorrhage TGLS = 3-7] | | | |
| [Pigmentation TGLS = 3-7] | | | |
| * Mammary Gland | | Ectasia | Moderate |
| | | Hyperplasia | Focal, Marked |
| [Ectasia TGLS = 2-8] | | | |
| [Hyperplasia TGLS = 1-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 351

TRT#: 8

SEX: Female

DAY ON TEST: 475

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88180

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93030

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * 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 | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------------------------|-------------|-------------------------|------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Eye | | Cataract | Moderate |
| | Retina | Degeneration | Moderate |
| [Cataract TGLS = 6-44] | | | |
| [Degeneration TGLS = 6-44] | | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Cholangiofibrosis | Marked |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Hyperplasia | Regenerative, Focal, Marked |
| | | Leukemia Mononuclear | |
| [Cholangiofibrosis TGLS = 4-6] | | | |
| [Hyperplasia TGLS = 4-6] | | | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | Mediastinal | Leukemia Mononuclear | |
| [Hyperplasia TGLS = 2-7] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93030

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|------------------------------|----------------------|------------------------------|
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | [Dilatation TGLS = 1-21] | | |
| | [Fibroadenoma TGLS = 1-21] | | |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Moderate |
| | [Hemorrhage TGLS = 7-1] | | |
| * Spleen | | Hyperplasia | Histiocytic, Focal, Moderate |
| | [Hyperplasia TGLS = 3-6] | Leukemia Mononuclear | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | | Congestion | Minimal |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |
| | [Congestion TGLS = 5-3] | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93031

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Nose | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------|--|----------------------------|-----------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Leukemia Mononuclear | |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| | [Basophilic Focus TGLS = 6-6] | | |
| | [Hepatodiaphragmatic Nodule TGLS = 5-23] | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Leukemia Mononuclear | |
| | [Hyperplasia TGLS = 4-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| | [Dilatation TGLS = 1-21, 2-8, 3-22] | | |
| | [Fibroadenoma TGLS = 1-21, 3-22] | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| | [Necrosis TGLS = 7-24] | | |
| * Ovary | Corpus Luteum | Hyperplasia | Moderate |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---|---|---|
| ANIMAL ID: 353 | TRT#: 8 DOSE: 2000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 735 HISTO: 00-93031 |
|-----------------------|---|---|---|

| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
|---|----------------|----------------------|-------------|
| * Pituitary Gland [Adenoma TGLS = 8-1] | Pars Distalis | Adenoma | |
| * Spleen | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Mild |

| | |
|-------------------------------|---|
| PRIMARY CAUSE OF DEATH | - |
|-------------------------------|---|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93032

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|----------------------------------|------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21, 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Rathkes Cleft | Hemorrhage | Moderate |
| [Adenoma TGLS = 5-1] | | | |
| [Hemorrhage TGLS = 5-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Carcinoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93032

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Mild

[Carcinoma TGLS = 3-3]

Endometrium

Hyperplasia

Cystic, Mild

* Uterus

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 355

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93033

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|-----------------------|--------------------------|
| * Islets, Pancreatic | | Carcinoma | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | Fibrosis | Moderate |
| [Dilatation TGLS = 2-8, 3-21, 4-22] | | | |
| [Fibroadenoma TGLS = 3-21, 4-22] | | | |
| [Fibrosis TGLS = 2-8, 4-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | Multiple |
| [Adenoma TGLS = 5-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 355

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93033

ORGAN AND ACCOUNTABLE SITE STATUS

Animal Note: TGL 1 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93034

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | Lacrimal Gland | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|----------------------------------|--------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | Fibrosis | Moderate |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 1-21, 2-22, 3-8] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| [Fibrosis TGLS = 3-8] | | | |
| [Hyperplasia TGLS = 3-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93034

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93035

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|-----------------------|-------------------------|
| * Harderian Gland | | Inflammation | Chronic, Focal, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Clear Cell Focus | |
| | | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6, 3-23] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 2-22] | | | |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Hyperplasia | Focal, Mild |
| [Angiectasis TGLS = 4-1] | | | |
| [Hyperplasia TGLS = 4-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93035

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93036

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-------------------|---|----------------------------|------------------|
| * Brain | | Compression | Focal, Moderate |
| * Clitoral Gland | | Adenoma | |
| | | Inflammation | Chronic, Minimal |
| | [Adenoma TGLS = 2-8] | | |
| | [Inflammation TGLS = 1-8] | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | [Basophilic Focus TGLS = 7-6] | | |
| | [Hepatodiaphragmatic Nodule TGLS = 8-24] | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Minimal |
| Lymph Node | Pancreatic | Pigmentation | Minimal |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | Multiple |
| | [Dilatation TGLS = 6-8] | | |
| | [Fibroadenoma TGLS = 3-21, 4-22, 5-23, 6-8, 9-25] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | [Adenoma TGLS = 10-1] | | |
| * Spleen | | Hemorrhage | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93036

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93037

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|-------------|-----------------------------------|-------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| | | Vacuolization Cytoplasmic | Focal, Mild |
| * Clitoral Gland | | Inflammation | Chronic, Moderate |
| [Inflammation TGLS = 1-8] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6, 4-23] | | Vacuolization Cytoplasmic | Focal, Minimal |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 5-3] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 2-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 3-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93037

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93038

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|---------------------------|-----------------------|
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 3-6] | | | |
| Lymph Node | Pancreatic | Pigmentation | Minimal |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Intermed | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 360

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93038

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93039

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|--|---|
| * Bone Marrow | | Hyperplasia | Histiocytic, Focal, Marked |
| Note: TGL 7-9 lesion probably is example of stromal hyperplasia as discussed on page 400-401, Pathol of the Fischer Rat, (1990). Compare with rat 364, this study. | | | |
| [Hyperplasia TGLS = 7-9] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet Nephropathy | Mild Minimal |
| * Liver | | Basophilic Focus Clear Cell Focus Hyperplasia Infiltration Cellular Mixed Cell Focus | Histiocytic, Focal, Minimal Mixed Cell, Mild |
| * Mammary Gland | | Dilatation Fibroadenoma | Marked |
| [Dilatation TGLS = 1-8, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93039

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Polyp Stromal TGLS = 4-7]

Follicular Cel
Follicle
Endometrium

Hypertrophy
Mineralization
Polyp Stromal

Mild
Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93040

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Harderian Gland |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Nose | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Intestine Large, Rectum

OBSERVATIONS

- | | | | |
|-------------------------------------|---------------------------|--|--|
| * Adrenal Cortex | | Cytoplasmic Alteration Degeneration Hemorrhage Leukemia Mononuclear | Focal, Mild Cystic, Focal, Mild Mild |
| [Hemorrhage TGLS = 7-10] | | | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage Leukemia Mononuclear | Focal, Minimal |
| * Eye | Retrobulbar | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear Nephropathy | Moderate |
| * Liver | Renal Tubule Bile Duct | Pigmentation Hyperplasia Leukemia Mononuclear | Moderate Moderate |
| [Leukemia Mononuclear TGLS = 8-6] | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| * Lung | | Hyperplasia Leukemia Mononuclear | Histiocytic, Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 362 | TRT#: 8 | SEX: Female | DAY ON TEST: 736 |
| | DOSE: 2000MG/L | DISP: Terminal Sacrifice | HISTO: 00-93040 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------------------|---------------|----------------------|-----------------------|
| [Leukemia Mononuclear TGLS = 11-2] | | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-7] | | | |
| [Leukemia Mononuclear TGLS = 10-3] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-5] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| Mesentery | | Leukemia Mononuclear | |
| * Ovary | | Leukemia Mononuclear | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| | | Leukemia Mononuclear | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Stomach, Forestomach | | Edema | Mild |
| | | Leukemia Mononuclear | |
| * Thymus | | Leukemia Mononuclear | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicle | Mineralization | Focal, Minimal |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| * Uterus | | Leukemia Mononuclear | |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 644

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-89834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Clitoral Gland | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Islets, Pancreatic | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum * Kidney

OBSERVATIONS

| | | | |
|--------------------------|--------------------------------------|---|-------------------|
| * Adrenal Cortex | | Leukemia Mononuclear Vacuolization Cytoplasmic | Focal, Mild |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | Hepatocyte | Leukemia Mononuclear Vacuolization Cytoplasmic | Diffuse, Moderate |
| | [Leukemia Mononuclear TGLS = 5-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 10-7] | | |
| | [Leukemia Mononuclear TGLS = 7-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |
| | [Dilatation TGLS = 1-8] | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| | [Necrosis TGLS = 3-21] | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:26
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|-----------------------|-----------------------|----------------------------|-------------------------|
| ANIMAL ID: 363 | TRT#: 8 | SEX: Female | DAY ON TEST: 644 |
| | DOSE: 2000MG/L | DISP: Natural Death | HISTO: 00-89834 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------------------|--|----------------------|----------------|
| [Adenoma TGLS = 9-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| * Thymus | | Hemorrhage | Moderate |
| | | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 6-3] | | | |
| * Thyroid Gland | Follicular Cel | Adenoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| [Adenoma TGLS = 8-3] | | | |
| Tissue NOS | Mediastinum | Thrombosis | Moderate |
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear | | |
| CONTRIBUTORY CAUSE OF DEATH | - Thyroid Gland Follicular Cel Adenoma | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93041

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|----------------------------------|----------------------------|
| * Adrenal Cortex | | Angiectasis | Moderate |
| * Bone Marrow | | Hemorrhage | Mild |
| | | Hyperplasia | Histiocytic, Focal, Marked |
| Note: 3 special stains (toluidine blue, PAS, and Prussian blue) showed that cytoplasmic particles in some hyperplastic histiocytes were iron-rich debris, not fungi. | | | |
| [Hemorrhage TGLS = 5-9] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| * Ovary | | Cyst | Mild |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Rathkes Cleft | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 4-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 364 | TRT#: 8 DOSE: 2000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 736 HISTO: 00-93041 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicular Cel Follicle | Hypertrophy Mineralization | Mild Focal, Moderate |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 670

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-89993

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------|--------------------------|----------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Colon | * Islets, Pancreatic | * Lymph Node, Mesenteric | Mesentery |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Thyroid Gland | | |

OBSERVATIONS

| | | | |
|--|---------------------------|---------------------------|----------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Clitoral Gland | | Sarcoma | |
| Note: Clitoral gland lesion is on slide 8. | | | |
| * Kidney | | Nephropathy | Minimal |
| | | Sarcoma | |
| [Sarcoma TGLS = 7-24] | | | |
| * Liver | Centrilobular, Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Necrosis | Mild |
| | | Vacuolization Cytoplasmic | Mild |
| [Necrosis TGLS = 8-6] | | | |
| [Vacuolization Cytoplasmic TGLS = 8-6] | | | |
| * Lung | | Hemorrhage | Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| | | Sarcoma | |
| [Sarcoma TGLS = 12-2] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| | Mediastinal | Sarcoma | |
| [Sarcoma TGLS = 11-26] | | | |
| * Mammary Gland | | Dilatation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 670

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-89993

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 3-8]

| | | | |
|---------------------------------|---------------|----------------------------------|----------------|
| * Ovary | | Sarcoma | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Skin | Subcut Tiss | Sarcoma | |
| [Sarcoma TGLS = 1-21, 2-22] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| | | Sarcoma | |
| [Sarcoma TGLS = 4-23] | | | |
| * Stomach, Forestomach | Epithelium | Hyperplasia | Mild |
| | | Ulcer | Mild |
| * Thymus | | Sarcoma | |
| [Sarcoma TGLS = 9-26] | | | |
| Tissue NOS | Mediastinum | Sarcoma | |
| [Sarcoma TGLS = 10-25, 10-26] | | | |
| * Uterus | Endometrium | Polyp Stromal | |
| | Endometrium | Sarcoma | |
| [Polyp Stromal TGLS = 6-7] | | | |

PRIMARY CAUSE OF DEATH

- Uterus Endometrium Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93042

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * 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 | * Lung | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Cyst | Mild |
| [Adenoma TGLS = 3-1] | | | |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 366 | TRT#: 8 DOSE: 2000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 737 HISTO: 00-93042 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Mild Mild Focal, Moderate |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93043

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * 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, Mesenteric | * Nose |
| * Ovary | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|------------------------------------|---------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Clitoral Gland | | Degeneration | Cystic, Moderate |
| [Degeneration TGLS = 1-8] | | | |
| * Heart | | Infiltration Cellular | Mixed Cell, Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 5-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| [Dilatation TGLS = 2-8, 4-22] | | | |
| [Fibroadenoma TGLS = 3-21, 4-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | | Lipomatosis | Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 7-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93043

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93044

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|--------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------------|-------------|-----------------------|--------------------------|
| * Heart | | Infiltration Cellular | Mixed Cell, Minimal |
| * Intestine Small, Duodenum | Epithelium | Cyst | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 2-6] | | | |
| [Clear Cell Focus TGLS = 3-22] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Carcinoma | |
| | | Dilatation | Moderate |
| [Carcinoma TGLS = 4-8] | | | |
| [Dilatation TGLS = 4-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93044

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 5-1]

Pars Distalis

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Mild

* Uterus

Endometrium

Hyperplasia

Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93045

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|--------------------------|--------------------------|
| * Adrenal Medulla | | Pheochromocytoma Complex | |
| [Pheochromocytoma Complex TGLS = 6-25] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 9-6, 9-26] | | | |
| Lymph Node | Pancreatic | Hemorrhage | Mild |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 7-23] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| | Duct | Cyst | Focal, Multiple, Mild |
| [Cyst TGLS = 4-7] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 737

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93045

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 8-1]

[Angiectasis TGLS = 8-1]

* Spleen

Hyperplasia

Histiocytic, Focal, Marked

[Hyperplasia TGLS = 5-6, 5-24]

* Thyroid Gland

C Cell

Adenoma

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

* Uterus

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 693

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|-----------------------------|----------------------|-------------------|
| * Bone | * Clitoral Gland | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Small, Duodenum | * Islets, Pancreatic | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | | |
|----------------------------|--------------------------|---------------------------|--------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Thyroid Gland | | |

OBSERVATIONS

- | | | | |
|--------------------------------------|-----------|----------------------|-----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 9-22] | | | |
| [Leukemia Mononuclear TGLS = 9-22] | | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Basophilic Focus | |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Mixed Cell Focus | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | | Congestion | Moderate |
| | | Hemorrhage | Focal, Moderate |
| | | Leukemia Mononuclear | |
| [Congestion TGLS = 5-2] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 693

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90403

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|---------------|----------------------|----------|
| [Hemorrhage TGLS = 5-2] | | | |
| [Leukemia Mononuclear TGLS = 5-2] | | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-3] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| * Pituitary Gland | Rathkes Cleft | Angiectasis | Mild |
| | | Hemorrhage | Mild |
| [Angiectasis TGLS = 8-1] | | | |
| [Hemorrhage TGLS = 8-1] | | | |
| * Spleen | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-6] | | | |
| * Stomach, Glandular | | Erosion | Minimal |
| [Erosion TGLS = 10-23] | | | |
| * Thymus | | Leukemia Mononuclear | |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93046

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Kidney | * Lung | * Lymph Node, Mesenteric | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|---------------------------|-----------------------|
| * Heart | | Infiltration Cellular | Mixed Cell, Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | | Vacuolization Cytoplasmic | Focal, Minimal |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| * Nose | Respirat Epith | Metaplasia | Squamous, Focal, Mild |
| * Pancreas | Duct | Hyperplasia | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| [Adenoma TGLS = 3-1] | | | |
| [Angiectasis TGLS = 3-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93046

ORGAN AND ACCOUNTABLE SITE STATUS

Follicle

Mineralization

Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93047

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|----------------------------------|-----------------------------|
| * Heart | | Infiltration Cellular | Mixed Cell, Mild |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21, 3-22] | | | |
| [Fibroadenoma TGLS = 2-21, 3-22] | | | |
| * Pituitary Gland | | Angiectasis | Moderate |
| | Pars Distalis | Cytoplasmic Alteration | Focal, Moderate |
| [Angiectasis TGLS = 5-1] | | | |
| [Cytoplasmic Alteration TGLS = 5-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93048

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|-----------------------|------------------------------|
| * Adrenal Cortex | | Angiectasis | Moderate |
| * Adrenal Medulla | | Angiectasis | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 2-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Dilatation | Mild |
| * Ovary | | Cyst | Mild |
| [Cyst TGLS = 1-7] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93049

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Kidney | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|----------------|-----------------------|--------------------------|
| * Clitoral Gland | | Adenoma | |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 6-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | Multiple |
| | | Hyperplasia | Mild |
| [Fibroadenoma TGLS = 1-21, 4-23] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 7-24] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| [Hyperplasia TGLS = 8-1] | | | |
| * Skin | | Ulcer | Minimal |
| [Ulcer TGLS = 3-22] | | | |
| * Thyroid Gland | C Cell | Carcinoma | |
| | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|-----------------------|---------------------------------|-------------------------|
| ANIMAL ID: 374 | TRT#: 8 | SEX: Female | DAY ON TEST: 735 |
| | DOSE: 2000MG/L | DISP: Terminal Sacrifice | HISTO: 00-93049 |

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|--------------------------|-------------|-------------|-----------------|
| [Carcinoma TGLS = 5-3] | | | |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93050

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|----------------------------------|-----------------------------|
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Mammary Gland | | Dilatation | Mild |
| [Dilatation TGLS = 1-8] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 4-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Polyp Stromal | |
| [Polyp Stromal TGLS = 2-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93050

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93051

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * 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 | * Lung | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|------------------------------|-------------------------------|-----------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Moderate |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | Mixed Cell Focus | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Pancreatic | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Ectasia TGLS = 4-7] | | | |
| [Hemorrhage TGLS = 4-7] | | | |
| [Hyperplasia TGLS = 4-7] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Marked |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93051

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|----------------|----------------|----------------------------|
| * Pituitary Gland [Adenoma TGLS = 7-1] | Pars Distalis | Adenoma | |
| * Spleen [Hyperplasia TGLS = 3-21] | | Hyperplasia | Histiocytic, Focal, Marked |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93052

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * 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 |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

OBSERVATIONS

| | | | |
|--|----------------|-------------------------------|------------------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLS = 4-23] | | | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Nephropathy | Minimal |
| * Liver | Bile Duct | Degeneration | Cystic, Focal, Mild |
| | | Hyperplasia | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| | | Mixed Cell Focus | |
| [Mixed Cell Focus TGLS = 3-22] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 2-21] | | | |
| * Pituitary Gland | | Angiectasis | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93053

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|---------------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 4-6] | | | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-21, 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Ovary | | Cyst | Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Rathkes Cleft | Hemorrhage | Moderate |
| [Adenoma TGLS = 5-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93053

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 3-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93054

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * 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 |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

| | | | |
|--|---------------|----------------------------|-----------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 4-6] | | | |
| [Hepatodiaphragmatic Nodule TGLS = 5-21] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Hyperplasia | Mild |
| | | Inflammation | Chronic, Mild |
| [Dilatation TGLS = 1-8] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | Pars Distalis | Hemorrhage | Focal, Moderate |
| [Adenoma TGLS = 7-1] | | | |
| [Hemorrhage TGLS = 7-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93054

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Minimal

Follicle

Mineralization

Focal, Moderate

* Uterus

Endometrium

Polyp Stromal

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 542

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-88443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|---------------|----------------------------------|------------------------------|
| * Harderian Gland | | Hyperplasia | Focal, Minimal |
| * Kidney | | Atrophy | Focal, Moderate |
| | Renal Tubule | Nephropathy | Mild |
| | | Pigmentation | Mild |
| [Atrophy TGLS = 3-5] | | | |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Hyperplasia | Histiocytic, Minimal |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| | | Pigmentation | Moderate |
| [Hyperplasia TGLS = 2-7] | | | |
| [Pigmentation TGLS = 2-7] | | | |
| * Mammary Gland | | Ectasia | Mild |
| * Pituitary Gland | | Angiectasis | Moderate |
| | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| [Angiectasis TGLS = 4-1] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014
Time Report Requested: 12:58:26
First Dose M/F: NA / NA
Lab: SRI

| | | | |
|-----------------------|---|---|---|
| ANIMAL ID: 380 | TRT#: 8 DOSE: 2000MG/L | SEX: Female DISP: Moribund Sacrifice | DAY ON TEST: 542 HISTO: 00-88443 |
|-----------------------|---|---|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|----------|---|---|--|
| * Uterus | Follicular Cel Follicle Endometrium | Hypertrophy Mineralization Hemorrhage Hyperplasia Inflammation Ulcer | Minimal Focal, Minimal Moderate Cystic, Moderate Suppurative, Moderate Chronic Active, Marked |
|----------|---|---|--|

Note: Prolapse of uterus probably occurred after cystic hyperplasia and inflammation, but prolapse exacerbated problem and resulted in further damage to uterus.

[Hemorrhage TGLS = 1-7]

[Hyperplasia TGLS = 1-7]

[Inflammation TGLS = 1-7]

[Ulcer TGLS = 1-7]

| | |
|-----------------------------|--|
| PRIMARY CAUSE OF DEATH | - Uterus Ulcer |
| CONTRIBUTORY CAUSE OF DEATH | - Uterus Hemorrhage;Uterus Endometrium Hyperplasia;Uterus Inflammation |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 703

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * 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 | * Lung | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|---------------|---------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 7-1] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Hyperplasia | Regenerative, Marked |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Necrosis | Focal, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Hyperplasia TGLS = 4-22] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-8] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 8-21] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 703

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-90404

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|--|---|---------------------------------------|
| * Spleen [Hematopoietic Cell Proliferation TGLS = 2-6] | | Hematopoietic Cell Proliferation | Mild |
| * Thymus [Hyperplasia TGLS = 5-3] | | Hyperplasia | Lymphoid, Moderate |
| * Thyroid Gland [Adenoma TGLS = 6-3] | Follicular Cel C Cell Follicular Cel Follicle | Adenoma Hyperplasia Hypertrophy Mineralization | Minimal Moderate Focal, Minimal |

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93055

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Brain | * Esophagus | * Eye | * Heart |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--|---------------|-----------------------|------------------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Clitoral Gland | | Adenoma | |
| * Harderian Gland | | Inflammation | Chronic, Focal, Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Cholangiofibrosis | Marked |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Hyperplasia | Regenerative, Marked |
| | | Infiltration Cellular | Mixed Cell, Moderate |
| [Cholangiofibrosis TGLS = 7-6, 8-23] | | | |
| [Hyperplasia TGLS = 7-6] | | | |
| Lymph Node | Pancreatic | Hemorrhage | Moderate |
| | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Minimal |
| [Hemorrhage TGLS = 4-7] | | | |
| [Hyperplasia TGLS = 9-3] | | | |
| * Lymph Node, Mesenteric | | Hemorrhage | Moderate |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 1-21] | | | |
| * Pituitary Gland | Rathkes Cleft | Hemorrhage | Moderate |
| [Hemorrhage TGLS = 10-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93055

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-----------------|--|---|---|
| * Spleen | Red Pulp | Fibrosis Hematopoietic Cell Proliferation Hyperplasia | Diffuse, Moderate Moderate Histiocytic, Focal, Moderate |
| | [Hematopoietic Cell Proliferation TGLS = 3-6, 3-22] [Hyperplasia TGLS = 6-22] | | |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Mild Minimal Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia Inflammation | Cystic, Moderate Suppurative, Focal, Moderate |
| | [Hyperplasia TGLS = 2-7] [Inflammation TGLS = 2-7] | | |

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 5-7 consists of edema of the pancreas and mesentery. Limitations of LDAS 2 available terminology requires recording this lesion as an animal note.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93056

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * 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 | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | * Uterus | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|--------|--------------------------|---|
| * Eye | | Cataract Degeneration | Moderate Mild |
| [Cataract TGLS = 1-44] | Retina | | |
| [Degeneration TGLS = 1-44] | | | |
| * Kidney | | Inflammation | Granulomatous, Chronic, Focal, Moderate |
| * Liver | | Basophilic Focus | |
| | | Congestion | Mild |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| [Congestion TGLS = 5-6] | | | |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| [Dilatation TGLS = 2-8, 3-21] | | | |
| [Fibroadenoma TGLS = 3-21] | | | |
| [Hyperplasia TGLS = 2-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 4-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93056

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Angiectasis

Mild

Hyperplasia

Focal, Mild

[Angiectasis TGLS = 6-1]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93057

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Spleen | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

OBSERVATIONS

| | | | |
|---------------------------------|---------------|---------------------------|-----------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 1-6] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Ectasia TGLS = 2-21] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Degeneration | Cystic, Focal, Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93058

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|------------------------------------|----------------|-----------------------|-----------------------------|
| * Clitoral Gland | | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Mild |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 1-21, 2-22] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| [Hyperplasia TGLS = 1-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93058

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93059

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|--------------------------|----------------|----------------------------------|------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Pancreatic | Pigmentation | Mild |
| * Ovary | Periovarn Tiss | Cyst | Moderate |
| [Cyst TGLS = 1-7] | | | |
| * Pituitary Gland | Pars Distalis | Cyst | Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Adenoma | |
| | Follicular Cel | Carcinoma | |
| | C Cell | Hyperplasia | Mild |
| [Carcinoma TGLS = 2-3] | | | |
| * Uterus | Endometrium | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:26

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93060

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|-----------------------------|----------------|------------------------|--------------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration | Focal, Minimal |
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 5-3] | | | |
| * Mammary Gland | | Fibroadenoma | |
| [Fibroadenoma TGLS = 2-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 1-21] | | | |
| * Ovary | | Cyst | Minimal |
| * Pancreas | Duct | Cyst | Focal, Multiple, Minimal |
| * Thyroid Gland | C Cell | Adenoma | |
| | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 387 | TRT#: 8 DOSE: 2000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 729 HISTO: 00-93060 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| | Follicle | Mineralization | Focal, Minimal |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 636

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-89513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * 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 | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|--------------------------------------|--------------|-------------------------------|----------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Kidney | Renal Tubule | Accumulation, Hyaline Droplet | Mild |
| | | Leukemia Mononuclear | |
| | Renal Tubule | Nephropathy | Minimal |
| | | Pigmentation | Moderate |
| [Pigmentation TGLS = 8-5] | | | |
| * Liver | Bile Duct | Basophilic Focus | |
| | | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 10-2] | | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | Pancreatic | Pigmentation | Mild |
| [Leukemia Mononuclear TGLS = 7-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | Multiple |
| [Fibroadenoma TGLS = 1-21, 3-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|-----------------------|---|--|---|
| ANIMAL ID: 388 | TRT#: 8 DOSE: 2000MG/L | SEX: Female DISP: Natural Death | DAY ON TEST: 636 HISTO: 00-89513 |
|-----------------------|---|--|---|

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------------------------|--------------------------------------|--|------------------------------------|
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Pituitary Gland | Pars Distalis Rathkes Cleft | Adenoma Hemorrhage | Moderate |
| [Hemorrhage TGLS = 11-1] | | | |
| * Spleen | | Angiectasis Fibrosis Leukemia Mononuclear | Focal, Moderate Focal, Moderate |
| [Angiectasis TGLS = 5-6] | | | |
| [Fibrosis TGLS = 5-6] | | | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Thymus | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-3] | | | |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Mild Mild Focal, Minimal |
| Tissue NOS | Oral Mediastinum Oral | Foreign Body Leukemia Mononuclear Necrosis | Focal, Moderate Focal, Moderate |
| [Foreign Body TGLS = 12-23] | | | |
| [Necrosis TGLS = 12-23] | | | |
| * Uterus | | Leukemia Mononuclear | |

| | |
|-------------------------------|------------------------------|
| PRIMARY CAUSE OF DEATH | - Liver Leukemia Mononuclear |
|-------------------------------|------------------------------|

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93061

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 |
| * Lung | * Lymph Node, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Pituitary Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | * Uterus | |

MISSING

| | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

| | | | |
|------------------|--------------------------------------|---|---------------------------------------|
| * Clitoral Gland | | Hyperplasia Inflammation | Cystic, Moderate Chronic, Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus Fibrosis | Focal, Minimal |
| | | Hyperplasia Infiltration Cellular | Histiocytic, Focal, Minimal |
| Lymph Node | Pancreatic | Pigmentation | Mixed Cell, Mild |
| * Mammary Gland | | Carcinoma Dilatation Fibroadenoma | Mild Marked |
| | | [Carcinoma TGLS = 1-21] [Dilatation TGLS = 1-21, 2-22] [Fibroadenoma TGLS = 1-21, 2-22] | |
| * Thyroid Gland | C Cell Follicular Cel Follicle | Hyperplasia Hypertrophy Mineralization | Moderate Mild Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93062

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Parathyroid Gland | * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|---------------|-----------------------|-----------------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Mixed Cell Focus | |
| [Basophilic Focus TGLS = 4-6] | | | |
| [Mixed Cell Focus TGLS = 4-6] | | | |
| * Lung | | Inflammation | Chronic, Focal, Minimal |
| Lymph Node | Mediastinal | Hemorrhage | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| [Hemorrhage TGLS = 5-3] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 1-8] | | | |
| Mesentery | | Carcinoma | |
| [Carcinoma TGLS = 2-21,2-22] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| [Adenoma TGLS = 7-1] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93062

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|----------------|----------------------------------|------------------------|
| [Angiectasis TGLS = 7-1] | | | |
| * Skin | Subcut Tiss | Fibroma | |
| [Fibroma TGLS = 6-23] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 3-6] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Moderate |
| * Uterus | | Carcinoma | Metastatic (Mesentery) |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 635

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-89505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|-----------------------------|----------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Small, Duodenum | * Islets, Pancreatic | * Lung |
| * Lymph Node, Mesenteric | * Ovary | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | Zymbal's Gland | |

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

| | | | |
|---------------------------|--------------------------|----------------------------|----------|
| * Intestine Large, Rectum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Kidney |
| * Pancreas | * Thyroid Gland | | |

OBSERVATIONS

| | | | |
|--|------------------------------|----------------------------------|--------------------------|
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Moderate |
| * Eye | Bilateral | Atrophy | Marked |
| * Harderian Gland | | Squamous Cell Carcinoma | Metastatic (Oral Mucosa) |
| * Liver | Centrilobular, Hepatocyte | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Necrosis | Moderate |
| | | Vacuolization Cytoplasmic | Diffuse, Moderate |
| [Necrosis TGLS = 4-6] | | | |
| [Vacuolization Cytoplasmic TGLS = 4-6] | | | |
| Lymph Node | Deep Cervical | Hyperplasia | Plasma Cell, Moderate |
| [Hyperplasia TGLS = 7-22] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| [Dilatation TGLS = 3-8] | | | |
| * Nose | Nasolacrim Dct | Inflammation | Moderate |
| Oral Mucosa | | Squamous Cell Carcinoma | |
| [Squamous Cell Carcinoma TGLS = 8-24] | | | |
| * Skin | | Keratoacanthoma | |
| [Keratoacanthoma TGLS = 1-21] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 635

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-89505

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------|---------------|--------------------------|
| Tooth [Inflammation TGLS = 5-25] | Peridont Tiss | Inflammation | Chronic, Focal, Moderate |
| * Uterus [Polyp Stromal TGLS = 9-23] | Endometrium | Polyp Stromal | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93063

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|----------------|----------------------------------|------------------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Mammary Gland | | Hyperplasia | Mild |
| [Hyperplasia TGLS = 1-8] | | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | Follicular Cel | Carcinoma | |
| | C Cell | Hyperplasia | Minimal |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Minimal |
| [Carcinoma TGLS = 2-3] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93064

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * 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 |
| * Kidney | * Lung | * Lymph Node, Mesenteric | * Nose |
| * Ovary | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Spleen | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------------|----------------|---------------------------|--------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Mild |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 3-6] | | | |
| Lymph Node | Pancreatic | Hyperplasia | Histiocytic, Mild |
| * Mammary Gland | | Adenoma | |
| | | Dilatation | Mild |
| [Adenoma TGLS = 1-21] | | | |
| [Dilatation TGLS = 2-8] | | | |
| * Pancreas | Duct | Cyst | Focal, Multiple, Mild |
| * Pituitary Gland | | Angiectasis | Mild |
| | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| [Cytoplasmic Alteration TGLS = 5-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Minimal |
| | Follicle | Mineralization | Focal, Mild |
| * Uterus | Endometrium | Hyperplasia | Cystic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93064

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93065

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * 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 | Lacrimal Gland |
| * Lung | * Nose | * Ovary | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | * Uterus |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------------|--------------|----------------------|---------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Mild |
| * Brain | | Compression | Focal, Moderate |
| * Kidney | | Atrophy | Focal, Moderate |
| | | Nephropathy | Moderate |
| [Atrophy TGLS = 4-5, 4-23] | | | |
| * Liver | | Basophilic Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | | Leukemia Mononuclear | |
| [Basophilic Focus TGLS = 3-6] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Marked |
| | | Fibroadenoma | |
| | | Fibrosis | Moderate |
| | | Hyperplasia | Moderate |
| [Dilatation TGLS = 1-21, 2-8] | | | |
| [Fibroadenoma TGLS = 2-8] | | | |
| [Fibrosis TGLS = 1-21, 2-8] | | | |
| [Hyperplasia TGLS = 1-21, 2-8] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 5-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93065

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|-------------------|----------------------------|----------------------------------|--------------------------|
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |
| | [Adenoma TGLS = 6-1] | | |
| | [Angiectasis TGLS = 6-1] | | |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |
| | Follicular Cel | Hypertrophy | Mild |
| | Follicle | Mineralization | Focal, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90962

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------|--------------------------|
| * Bone | * Esophagus | * Eye | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic | * Lymph Node, Mandibular |
| * Nose | * Ovary | * Parathyroid Gland | * Salivary Glands |
| * Skin | * Stomach, Forestomach | * Trachea | * Urinary Bladder |
| * Uterus | | | |

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|---------------------------|----------------------------|----------|
| * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Jejunum | * Kidney |
| * Thyroid Gland | | | |

OBSERVATIONS

- | | | | |
|-------------------------------------|------------------------------|---------------------------|------------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | Erythroid Cell, Myeloid Cell | Hyperplasia | Moderate |
| * Brain | | Compression | Focal, Mild |
| [Compression TGLS = 11-1] | | | |
| * Clitoral Gland | | Hyperplasia | Moderate |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Liver | | Basophilic Focus | |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Focal, Minimal |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| * Lung | Interstitial | Edema | Moderate |
| | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Leukemia Mononuclear | |
| [Hyperplasia TGLS = 6-2] | | | |
| [Leukemia Mononuclear TGLS = 6-2] | | | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 8-3] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 730

DOSE: 2000MG/L

DISP: Natural Death

HISTO: 00-90962

ORGAN AND ACCOUNTABLE SITE STATUS

| | | | |
|---|---------------|----------------------|-----------------------|
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| Mesentery | | Leukemia Mononuclear | |
| | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 10-23] | | | |
| * Pancreas | Acinus | Atrophy | Diffuse, Marked |
| | Duct | Cyst | Focal, Multiple, Mild |
| | | Leukemia Mononuclear | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 12-1] | | | |
| * Spleen | | Hemorrhage | Moderate |
| | | Infarct | Moderate |
| | | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 9-6, 9-22] | | | |
| [Infarct TGLS = 9-6, 9-22] | | | |
| [Leukemia Mononuclear TGLS = 3-6, 3-22] | | | |
| * Stomach, Glandular | | Erosion | Mild |
| [Erosion TGLS = 13-24] | | | |
| * Thymus | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-3] | | | |
| Tissue NOS | Mediastinum | Leukemia Mononuclear | |
| PRIMARY CAUSE OF DEATH | - Liver | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93066

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Kidney | * Lung | * Lymph Node, Mesenteric |
| * Nose | * Ovary | * Pancreas | * Parathyroid Gland |
| * Salivary Glands | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---|----------------|--|-----------------------------|
| * Liver | | Basophilic Focus Clear Cell Focus Hyperplasia Infiltration Cellular | Minimal Mixed Cell, Mild |
| | Bile Duct | Vacuolization Cytoplasmic | Focal, Minimal |
| | Hepatocyte | Hyperplasia | Histiocytic, Mild |
| Lymph Node | Pancreatic | Dilatation | Moderate |
| * Mammary Gland | | Fibroadenoma | |
| [Dilatation TGLS = 1-8, 2-21] [Fibroadenoma TGLS = 2-21] | | | |
| Mesentery | Fat | Necrosis | Focal, Moderate |
| [Necrosis TGLS = 4-22, 5-23] | | | |
| * Pituitary Gland | | Angiectasis | Moderate |
| | Pars Distalis | Hyperplasia | Focal, Minimal |
| [Angiectasis TGLS = 6-1] [Hyperplasia TGLS = 6-1] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Moderate |
| | Follicular Cel | Hypertrophy | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

| | | | |
|--|---|---|---|
| ANIMAL ID: 396 | TRT#: 8 DOSE: 2000MG/L | SEX: Female DISP: Terminal Sacrifice | DAY ON TEST: 735 HISTO: 00-93066 |
| ORGAN AND ACCOUNTABLE SITE STATUS | | | |
| Vagina [Cyst TGLS = 3-7] | Follicle | Mineralization Cyst | Focal, Mild Moderate |
| PRIMARY CAUSE OF DEATH | - | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89994

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|--------------------------|----------|
| * Lymph Node, Mandibular | * Thymus |
|--------------------------|----------|

OBSERVATIONS

| | | | |
|----------------------------------|---------------------------|---------------------------|-------------------|
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 6-1] | | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Cholangiofibrosis | Marked |
| | | Eosinophilic Focus | |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | Centrilobular, Hepatocyte | Vacuolization Cytoplasmic | Mild |
| [Cholangiofibrosis TGLS = 3-6] | | | |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Mild |
| [Ectasia TGLS = 4-3] | | | |
| [Hyperplasia TGLS = 5-7] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| [Dilatation TGLS = 1-8] | | | |
| [Fibroadenoma TGLS = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Sodium chlorate)
CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 2000MG/L

DISP: Moribund Sacrifice

HISTO: 00-89994

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93067

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * 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, Mesenteric | * Nose | * Ovary |
| * Pancreas | * Parathyroid Gland | * Salivary Glands | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Uterus | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|----------------------------------|----------------|-----------------------|------------------|
| * Bone Marrow | Myeloid Cell | Hyperplasia | Moderate |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 5-6] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| Lymph Node | Mediastinal | Ectasia | Moderate |
| | Mediastinal | Hemorrhage | Mild |
| [Ectasia TGLS = 6-23] | | | |
| [Hemorrhage TGLS = 6-23] | | | |
| * Mammary Gland | | Dilatation | Moderate |
| | | Fibroadenoma | |
| | | Hyperplasia | Mild |
| [Dilatation TGLS = 1-21, 2-8] | | | |
| [Fibroadenoma TGLS = 1-21] | | | |
| [Hyperplasia TGLS = 1-21, 2-8] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| | | Angiectasis | Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93067

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]

[Angiectasis TGLS = 7-1]

* Spleen

Hematopoietic Cell Proliferation

Moderate

Hyperplasia

Histiocytic, Focal, Marked

[Hyperplasia TGLS = 4-22]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

Follicular Cel

Hypertrophy

Mild

Follicle

Mineralization

Focal, Moderate

* Urinary Bladder

Transit Epithe

Papilloma

[Papilloma TGLS = 3-24]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93068

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

| | | | |
|---------------------------------|-------------|-----------------------------------|-----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Adrenal Medulla | | Infiltration Cellular | Lymphoid, Focal, Mild |
| * Kidney | | Cyst | Mild |
| | | Nephropathy | Minimal |
| [Cyst TGLS = 4-5] | | | |
| * Liver | | Basophilic Focus | |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| [Basophilic Focus TGLS = 5-6] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | Pancreatic | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 3-7] | | | |
| * Mammary Gland | | Dilatation | Mild |
| | | Fibrosis | Mild |
| | | Hyperplasia | Mild |
| [Dilatation TGLS = 1-8] | | | |
| [Fibrosis TGLS = 1-8] | | | |
| [Hyperplasia TGLS = 1-8] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Thyroid Gland | C Cell | Adenoma | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96010-03

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Sodium chlorate)

CAS Number: 7775-09-9

Date Report Requested: 10/21/2014

Time Report Requested: 12:58:27

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93068

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

[Hyperplasia TGLS = 2-7]

C Cell

Hyperplasia

Moderate

Follicular Cel

Hypertrophy

Moderate

Follicle

Mineralization

Focal, Moderate

Endometrium

Hyperplasia

Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

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Species/Strain: Rat/F 344/N

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Time Report Requested: 12:58:27

First Dose M/F: NA / NA

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ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93069

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

| | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * 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 | * Lung |
| * Lymph Node, Mesenteric | * Nose | * Ovary | * Parathyroid Gland |
| * Pituitary Gland | * Salivary Glands | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Thymus | * Trachea | * Urinary Bladder |
| * Uterus | | | |

MISSING

| | |
|------------------|--------------------------|
| * Clitoral Gland | * Lymph Node, Mandibular |
|------------------|--------------------------|

OBSERVATIONS

| | | | |
|---------------------------------------|-------------|----------------------------------|--------------------------|
| * Adrenal Cortex | | Hemorrhage | Moderate |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Basophilic Focus | |
| | Bile Duct | Hyperplasia | Minimal |
| | | Hyperplasia | Histiocytic, Focal, Mild |
| | | Infiltration Cellular | Mixed Cell, Mild |
| [Basophilic Focus TGLS = 4-6, 4-23] | | | |
| Lymph Node | Mediastinal | Hyperplasia | Histiocytic, Moderate |
| [Hyperplasia TGLS = 5-3] | | | |
| * Mammary Gland | | Adenoma | |
| | | Dilatation | Marked |
| | | Fibroadenoma | Multiple |
| [Adenoma TGLS = 2-22] | | | |
| [Dilatation TGLS = 2-22] | | | |
| [Fibroadenoma TGLS = 1-21, 2-22] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| | Duct | Cyst | Focal, Multiple, Minimal |
| * Spleen | | Hematopoietic Cell Proliferation | Moderate |
| * Thyroid Gland | C Cell | Carcinoma | |

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Experiment Number: 96010-03

Test Type: CHRONIC

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TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 2000MG/L

DISP: Terminal Sacrifice

HISTO: 00-93069

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel
Follicle

Hypertrophy
Mineralization

Moderate
Focal, Moderate

[Carcinoma TGLS = 3-3]

PRIMARY CAUSE OF DEATH

-

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE