C Number:	C55221C
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male
PWG Approval Date	10/15/1997

Experiment Number: 05131-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
Time Report Requested: 03:24:09
First Dose M/F: NA / NA
Lab: NIEHS

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	695	737	736	739	737	739	733	695	737	739	739	639	736	695	695	697	736	695	737	737	696	611	667	739	737	697	726	710	737	737	737
ANIMAL ID	0004	0008	0019	0021	0029	0034	0036	0047	0049	0052	0055	0060	0068	0070	0071	0080	0084	0094	0099	0102	0106	0107	0109	0122	0132	0137	0143	0144	0146	0147	0148
Alimentary System																															
Oral Mucosa						+		+					+						+												
Squamous Cell Carcinoma						X							X						X												
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiovascular System																															
NONE																															
Endocrine System																															
NONE																															
General Body System																															
NONE																															
Genital System																															
NONE																															
Hematopoietic System																															
Bone Marrow			+				+					+		+	+	+	+						+								
Femur, Leukemia Mononuclear			X											X																	
Femur, Leukemia Mononuclear, Metastatic, Uncertain Primary Site							X					X			X	X	X														
Humerus, Leukemia Mononuclear			X											X																	

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	695	737	736	739	737	739	733	695	737	739	739	639	736	695	695	697	736	695	737	737	696	611	667	739	737	697	726	710	737	737	737
ANIMAL ID	0004	0008	0019	0021	0029	0034	0036	0047	0049	0052	0055	0060	0068	0070	0071	0080	0084	0094	0099	0102	0106	0107	0109	0122	0132	0137	0143	0144	0146	0147	0148
Humerus, Leukemia Mononuclear, Metastatic, Uncertain Primary Site							X					X			X	X	X														
Joint, Leukemia Mononuclear, Metastatic, Uncertain Primary Site							X								X	X	X														
Joint, Lymphoma Malignant, Metastatic, Uncertain Primary Site																															
Maxilla, Lymphoma Malignant, Metastatic, Uncertain Primary Site																															
Tibia, Leukemia Mononuclear			X											X																	
Tibia, Leukemia Mononuclear, Metastatic, Uncertain Primary Site							X					X			X	X	X														
Vertebra, Leukemia Mononuclear			X																												
Vertebra, Leukemia Mononuclear, Metastatic, Uncertain Primary Site							X																								
Vertebra, Lymphoma Malignant, Metastatic, Uncertain Primary Site																															
Integumentary System																															
NONE																															
Musculoskeletal System																															
Bone, Cranium													+																		
Squamous Cell Carcinoma													X																		
Bone, Femur			+	+	+	+	+	+				+		+	+	+	+					+	+			+			+	+	
Lymphoma Malignant																															
Bone, Humerus	+	+	+	+	+		+	+				+		+	+	+	+					+	+							+	

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05131-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
Time Report Requested: 03:24:09
First Dose M/F: NA / NA
Lab: NIEHS

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	695	737	736	739	737	739	733	695	737	739	739	639	736	695	695	697	736	695	737	737	696	611	667	739	737	697	726	710	737	737	737
ANIMAL ID	0004	0008	0019	0021	0029	0034	0036	0047	0049	0052	0055	0060	0068	0070	0071	0080	0084	0094	0099	0102	0106	0107	0109	0122	0132	0137	0143	0144	0146	0147	0148
Bone, Intervertebral Disc				+	+																	+									
Bone, Joint				+	+		+	+				+		+	+	+	+					+	+			+			+		
Lymphoma Malignant																															
Bone, Mandible																															
Osteosarcoma																															
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sarcoma																															
Squamous Cell Carcinoma						X							X						X												
Bone, Pelvis																															
Lymphoma Malignant																															
Osteosarcoma																															
Bone, Tibia	+		+	+	+		+	+			+	+		+	+	+	+					+			+	+			+	+	+
Lymphoma Malignant																															
Bone, Vertebra			+	+	+		+	+				+			+							+	+								
Lymphoma Malignant																															

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	695	737	736	739	737	739	733	695	737	739	739	639	736	695	695	697	736	695	737	737	696	611	667	739	737	697	726	710	737	737	737
ANIMAL ID	0004	0008	0019	0021	0029	0034	0036	0047	0049	0052	0055	0060	0068	0070	0071	0080	0084	0094	0099	0102	0106	0107	0109	0122	0132	0137	0143	0144	0146	0147	0148
Urinary System																															
NONE																															
SYSTEMIC LESIONS																															
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear			X				X					X		X	X	X	X														
Lymphoma Malignant																															

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	0737	0723	0695	0667	0737	0565	0737	0611	0667	0739	0737	0611	0639	0737	0737	0737	0695	0639	0736	
ANIMAL ID	0014 9	0015 2	0015 5	0015 7	0016 3	0016 7	0017 1	0017 5	0017 9	0018 2	0018 6	0018 9	0019 0	0019 1	0019 8	0020 2	0020 6	0021 6	0021 7	*TOTALS
Alimentary System																				
Oral Mucosa							+		+								+			7
Squamous Cell Carcinoma							X										X			5
Tooth, Incisor	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		47
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49
Cardiovascular System																				
NONE																				
Endocrine System																				
NONE																				
General Body System																				
NONE																				
Genital System																				
NONE																				
Hematopoietic System																				
Bone Marrow																		+		9
Femur, Leukemia Mononuclear																				2
Femur, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																				5
Humerus, Leukemia Mononuclear																				2

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	737	723	695	667	737	565	737	611	667	739	737	611	639	737	737	737	695	639	736	
ANIMAL ID	0014 9	0015 2	0015 5	0015 7	0016 3	0016 7	0017 1	0017 5	0017 9	0018 2	0018 6	0018 9	0019 0	0019 1	0019 8	0020 2	0020 6	0021 6	0021 7	*TOTALS
Humerus, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																				5
Joint, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																				4
Joint, Lymphoma Malignant, Metastatic, Uncertain Primary Site																		X		1
Maxilla, Lymphoma Malignant, Metastatic, Uncertain Primary Site																		X		1
Tibia, Leukemia Mononuclear																				2
Tibia, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																				5
Vertebra, Leukemia Mononuclear																				1
Vertebra, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																				1
Vertebra, Lymphoma Malignant, Metastatic, Uncertain Primary Site																		X		1
Integumentary System																				
NONE																				
Musculoskeletal System																				
Bone, Cranium																				1
Squamous Cell Carcinoma																				1
Bone, Femur	+	+	+		+		+	+	+	+	+			+		+		+		28
Lymphoma Malignant																		X		1
Bone, Humerus					+		+	+		+				+		+				21

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	0737	0723	0695	0667	0737	0565	0737	0611	0667	0739	0737	0611	0639	0737	0737	0737	0695	0639	0736	
ANIMAL ID	0014 9	0015 2	0015 5	0015 7	0016 3	0016 7	0017 1	0017 5	0017 9	0018 2	0018 6	0018 9	0019 0	0019 1	0019 8	0020 2	0020 6	0021 6	0021 7	*TOTALS
Bone, Intervertebral Disc																	+			4
Bone, Joint	+	+			+		+	+	+	+				+		+		+		23
Lymphoma Malignant																		X		1
Bone, Mandible							+													1
Osteosarcoma							X													1
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49
Sarcoma				X																1
Squamous Cell Carcinoma							X										X			5
Bone, Pelvis																		+		1
Lymphoma Malignant																		X		1
Osteosarcoma																		X		1
Bone, Tibia	+	+			+		+	+	+	+				+		+		+		28
Lymphoma Malignant																		X		1
Bone, Vertebra					+					+						+	+	+		14
Lymphoma Malignant																		X		1

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	737	723	695	667	737	565	737	611	667	739	737	611	639	737	737	737	695	639	736	
ANIMAL ID	0014 9	0015 2	0015 5	0015 7	0016 3	0016 7	0017 1	0017 5	0017 9	0018 2	0018 6	0018 9	0019 0	0019 1	0019 8	0020 2	0020 6	0021 6	0021 7	*TOTALS
Urinary System																				
NONE																				
SYSTEMIC LESIONS																				
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49
Leukemia Mononuclear																				7
Lymphoma Malignant																		X		1

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05131-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
Time Report Requested: 03:24:10
First Dose M/F: NA / NA
Lab: NIEHS

F 344/N Rat Male
250 PPM

DAY ON TEST	695	736	695	736	730	736	739	736	667	736	736	611	611	639	736	704	736	716	736	695	736	736	736	739	736	732	667	736	736	691	667
ANIMAL ID	0001	0003	0005	0013	0014	0017	0023	0025	0026	0032	0033	0035	0038	0050	0051	0054	0057	0059	0067	0075	0078	0079	0083	0088	0092	0093	0113	0114	0123	0126	0142
Alimentary System																															
Oral Mucosa																											+				
Squamous Cell Carcinoma																											X				
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiovascular System																															
NONE																															
Endocrine System																															
NONE																															
General Body System																															
Tissue NOS																															
Osteosarcoma																															
Genital System																															
NONE																															
Hematopoietic System																															
Bone Marrow			+																												
Femur, Leukemia Mononuclear			X																												
Femur, Sarcoma, Metastatic, Uncertain Primary Site																															

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM

DAY ON TEST	695	736	695	736	730	736	739	736	667	736	736	611	611	639	736	704	736	716	736	695	736	736	736	739	736	732	667	736	736	691	667
ANIMAL ID	0001	0003	0005	0013	0014	0017	0023	0025	0026	0032	0033	0035	0038	0050	0051	0054	0057	0059	0067	0075	0078	0079	0083	0088	0092	0093	0113	0114	0123	0126	0142
Humerus, Sarcoma, Metastatic, Uncertain Primary Site																															
Integumentary System																															
NONE																															
Musculoskeletal System																															
Bone, Cranium																												+			
Bone, Femur		+	+		+		+	+		+		+					+	+		+							+		+		+
Bone, Humerus		+			+					+		+						+		+					+		+		+		
Bone, Joint		+	+		+		+	+		+		+						+		+							+		+		+
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma																											X				
Bone, Rib																										+					
Sarcoma, Metastatic, Uncertain Primary Site																															
Bone, Tibia		+	+		+		+	+		+		+						+	+	+							+		+		+
Bone, Vertebra		+			+					+		+				+		+		+							+		+	+	
Sarcoma, Metastatic, Uncertain Primary Site																															
Nervous System																															
NONE																															
Respiratory System																															
NONE																															

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM

DAY ON TEST	695	736	695	736	730	736	739	736	667	736	736	611	611	639	736	704	736	716	736	695	736	736	736	739	736	732	667	736	736	691	667
ANIMAL ID	0001	0003	0005	0013	0014	0017	0023	0025	0026	0032	0033	0035	0038	0050	0051	0054	0057	0059	0067	0075	0078	0079	0083	0088	0092	0093	0113	0114	0123	0126	0142
Special Senses System																															
NONE																															
Urinary System																															
NONE																															
SYSTEMIC LESIONS																															
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear			X																												

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM

DAY ON TEST	063 9	073 6	073 6	073 6	073 6	071 2	071 6	073 6	073 6	058 3	073 6	073 6	058 3	073 6	063 9	072 0	073 6	073 6	069 5	
ANIMAL ID	0015 0	0015 4	0016 5	0016 6	0017 2	0018 0	0018 4	0018 8	0019 4	0019 5	0019 7	0020 3	0020 7	0020 8	0020 9	0021 3	0021 9	0022 1	0022 2	*TOTALS
Alimentary System																				
Oral Mucosa						+	+				+			+						5
Squamous Cell Carcinoma						X	X				X			X						5
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	49
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	49
Cardiovascular System																				
NONE																				
Endocrine System																				
NONE																				
General Body System																				
Tissue NOS								+												1
Osteosarcoma								X												1
Genital System																				
NONE																				
Hematopoietic System																				
Bone Marrow															+					2
Femur, Leukemia Mononuclear																				1
Femur, Sarcoma, Metastatic, Uncertain Primary Site															X					1

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM

DAY ON TEST	639	736	736	736	736	712	716	736	736	583	736	736	583	736	639	720	736	736	695	
ANIMAL ID	0015 0	0015 4	0016 5	0016 6	0017 2	0018 0	0018 4	0018 8	0019 4	0019 5	0019 7	0020 3	0020 7	0020 8	0020 9	0021 3	0021 9	0022 1	0022 2	*TOTALS
Humerus, Sarcoma, Metastatic, Uncertain Primary Site															X					1
Integumentary System																				
NONE																				
Musculoskeletal System																				
Bone, Cranium																				1
Bone, Femur	+		+						+				+		+				+	19
Bone, Humerus											+		+		+				+	13
Bone, Joint	+												+		+				+	16
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	49
Squamous Cell Carcinoma						X	X				X			X						5
Bone, Rib															+					2
Sarcoma, Metastatic, Uncertain Primary Site															X					1
Bone, Tibia	+												+		+				+	17
Bone, Vertebra					+		+						+		+				+	15
Sarcoma, Metastatic, Uncertain Primary Site															X					1
Nervous System																				
NONE																				
Respiratory System																				
NONE																				

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM

DAY ON TEST	639	736	736	736	736	712	716	736	736	583	736	736	583	736	639	720	736	736	695	
ANIMAL ID	0015 0	0015 4	0016 5	0016 6	0017 2	0018 0	0018 4	0018 8	0019 4	0019 5	0019 7	0020 3	0020 7	0020 8	0020 9	0021 3	0021 9	0022 1	0022 2	*TOTALS
Special Senses System																				
NONE																				
Urinary System																				
NONE																				
SYSTEMIC LESIONS																				
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		+	+	+	49
Leukemia Mononuclear																				1

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05131-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
Time Report Requested: 03:24:11
First Dose M/F: NA / NA
Lab: NIEHS

F 344/N Rat Male
IRRAD WATER

DAY ON TEST	739	565	739	738	739	739	723	738	667	705	555	739	739	739	739	711	583	738	702	739	739	583	738	695	736	739	565	739	611	739	583
ANIMAL ID	0012	0016	0020	0022	0037	0039	0041	0042	0044	0046	0056	0061	0064	0085	0090	0096	0097	0098	0100	0103	0105	0111	0112	0119	0120	0129	0130	0133	0134	0140	0141
Alimentary System																															
Oral Mucosa																															
Squamous Cell Carcinoma																															
Tooth, Incisor	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiovascular System																															
NONE																															
Endocrine System																															
NONE																															
General Body System																															
NONE																															
Genital System																															
NONE																															
Hematopoietic System																															
Bone Marrow	+																			+											+
Femur, Leukemia Mononuclear																															
Femur, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																															X
Humerus, Leukemia Mononuclear																															

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
IRRAD WATER

DAY ON TEST	0739	0565	0739	0738	0739	0739	0723	0738	0667	0705	0555	0739	0739	0739	0739	0711	0583	0738	0702	0739	0739	0583	0738	0695	0736	0739	0565	0739	0611	0739	0583
ANIMAL ID	0012	0016	0020	0022	0037	0039	0041	0042	0044	0046	0056	0061	0064	0085	0090	0096	0097	0098	0100	0103	0105	0111	0112	0119	0120	0129	0130	0133	0134	0140	0141
Humerus, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																															X
Joint, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																															X
Maxilla, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																															X
Tibia, Leukemia Mononuclear																															
Tibia, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																															X
Vertebra, Leukemia Mononuclear																															
Integumentary System																															
NONE																															
Musculoskeletal System																															
Bone, Cranium							+																								
Bone, Femur	+					+	+					+	+	+	+				+	+		+				+					+
Bone, Humerus	+						+						+		+				+	+	+	+									+
Bone, Intervertebral Disc	+			+									+						+			+						+			
Bone, Joint	+					+	+						+	+	+				+	+		+									+
Sarcoma, Metastatic, Uncertain Primary Site																			X												
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma																															
Bone, Pelvis															+																
Bone, Rib																					+										

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
IRRAD WATER

DAY ON TEST	739	565	739	738	739	739	723	738	667	705	555	739	739	739	739	711	583	738	702	739	739	583	738	695	736	739	565	739	611	739	583
ANIMAL ID	0012	0016	0020	0022	0037	0039	0041	0042	0044	0046	0056	0061	0064	0085	0090	0096	0097	0098	0100	0103	0105	0111	0112	0119	0120	0129	0130	0133	0134	0140	0141
Bone, Scapula																										+					
Bone, Tarsal																															
Bone, Tibia	+					+	+						+	+	+				+	+		+									+
Bone, Vertebra	+	+		+			+						+	+	+				+			+						+			
Nervous System																															
NONE																															
Respiratory System																															
NONE																															
Special Senses System																															
NONE																															
Urinary System																															
NONE																															
SYSTEMIC LESIONS																															
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear																															X

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
IRRAD WATER

DAY ON TEST	0736	0739	0739	0739	0739	0583	0527	0739	0702	0667	0611	0736	0739	0639	0739	0739	0739	0667	
ANIMAL ID	0015 3	0015 6	0016 0	0016 2	0016 8	0016 9	0017 3	0017 4	0018 3	0019 9	0020 5	0021 0	0021 4	0021 5	0021 8	0022 3	0022 4	0022 5	*TOTALS
Alimentary System																			
Oral Mucosa	+					+					+		+						4
Squamous Cell Carcinoma	X												X						2
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Cardiovascular System																			
NONE																			
Endocrine System																			
NONE																			
General Body System																			
NONE																			
Genital System																			
NONE																			
Hematopoietic System																			
Bone Marrow					+				+										5
Femur, Leukemia Mononuclear									X										1
Femur, Leukemia Mononuclear, Metastatic, Uncertain Primary Site					X														2
Humerus, Leukemia Mononuclear									X										1

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
IRRAD WATER

DAY ON TEST	0736	0739	0739	0739	0739	0583	0527	0739	0702	0667	0611	0736	0739	0639	0739	0739	0739	0667	
ANIMAL ID	0015 3	0015 6	0016 0	0016 2	0016 8	0016 9	0017 3	0017 4	0018 3	0019 9	0020 5	0021 0	0021 4	0021 5	0021 8	0022 3	0022 4	0022 5	*TOTALS
Humerus, Leukemia Mononuclear, Metastatic, Uncertain Primary Site					X														2
Joint, Leukemia Mononuclear, Metastatic, Uncertain Primary Site					X														2
Maxilla, Leukemia Mononuclear, Metastatic, Uncertain Primary Site																			1
Tibia, Leukemia Mononuclear									X										1
Tibia, Leukemia Mononuclear, Metastatic, Uncertain Primary Site					X														2
Vertebra, Leukemia Mononuclear									X										1
Integumentary System																			
NONE																			
Musculoskeletal System																			
Bone, Cranium																			1
Bone, Femur					+				+	+	+	+		+				+	19
Bone, Humerus					+				+	+	+	+		+				+	16
Bone, Intervertebral Disc					+														7
Bone, Joint					+				+	+	+	+		+			+		17
Sarcoma, Metastatic, Uncertain Primary Site																			1
Bone, Maxilla	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	48
Squamous Cell Carcinoma	X																		1
Bone, Pelvis																			1
Bone, Rib																			1

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
IRRAD WATER

DAY ON TEST	0736	0739	0739	0739	0739	0583	0527	0739	0702	0667	0611	0736	0739	0639	0739	0739	0739	0667	
ANIMAL ID	0015 3	0015 6	0016 0	0016 2	0016 8	0016 9	0017 3	0017 4	0018 3	0019 9	0020 5	0021 0	0021 4	0021 5	0021 8	0022 3	0022 4	0022 5	*TOTALS
Bone, Scapula																+			2
Bone, Tarsal									+										1
Bone, Tibia				+	+				+	+	+	+		+	+			+	19
Bone, Vertebra					+		+	+	+		+	+		+				+	18
Nervous System																			
NONE																			
Respiratory System																			
NONE																			
Special Senses System																			
NONE																			
Urinary System																			
NONE																			
SYSTEMIC LESIONS																			
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Mononuclear					X				X										3

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM IRR FL

DAY ON TEST	055	061	073	058	073	073	073	073	058	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	069	063	073	073	073
ANIMAL ID	0002	0006	0007	0009	0010	0011	0015	0018	0024	0030	0045	0053	0062	0063	0066	0069	0072	0073	0074	0082	0087	0091	0095	0101	0104	0108	0110	0115	0116	0118	0121
Alimentary System																															
Oral Mucosa		+																+				+	+					+		+	
Squamous Cell Carcinoma																							X					X			
Tooth							+																								
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiovascular System																															
NONE																															
Endocrine System																															
Adrenal Cortex																															
General Body System																															
NONE																															
Genital System																															
NONE																															
Hematopoietic System																															
Bone Marrow																	A						+	+							
Femur, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site																															
Humerus, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site																															

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM IRR FL

DAY ON TEST	055	061	073	058	073	073	073	073	058	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	069	063	073	073	073
ANIMAL ID	0002	0006	0007	0009	0010	0011	0015	0018	0024	0030	0045	0053	0062	0063	0066	0069	0072	0073	0074	0082	0087	0091	0095	0101	0104	0108	0110	0115	0116	0118	0121
Rib, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site																															
Tibia, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site																															
Vertebra, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site																															
Integumentary System																															
NONE																															
Musculoskeletal System																															
Bone, Femur	+			+	+							+					+				+		+	+			+	+			+
Bone, Humerus	+			+	+							+					+				+		+				+				
Bone, Joint	+			+	+							+									+						+	+			+
Bone, Mandible																															
Osteosarcoma																															
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma																							X					X			
Bone, Radius												+																			
Bone, Rib																															
Bone, Tibia	+			+	+							+					+				+						+	+	+		+
Bone, Vertebra	+			+	+							+					+				+		+				+				
Nervous System																															
NONE																															

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male 250 PPM IRR FL																																
DAY ON TEST	055	061	073	058	073	073	073	073	058	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	073	069	063	073	073	073
ANIMAL ID	0002	0006	0007	0009	0010	0011	0015	0018	0024	0030	0045	0053	0062	0063	0066	0069	0072	0073	0074	0082	0087	0091	0095	0101	0104	0108	0110	0115	0116	0118	0121
Respiratory System																															
NONE																															
Special Senses System																															
NONE																															
Urinary System																															
NONE																															
SYSTEMIC LESIONS																															
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Histiocytic Sarcoma																															

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM IRR FL

DAY ON TEST	0738	0736	0611	0555	0738	0738	0738	0696	0738	0555	0716	0738	0583	0738	0695	0738	0709	0736	0723	
ANIMAL ID	0012 4	0012 5	0013 1	0013 6	0013 9	0015 8	0016 1	0016 4	0017 0	0017 6	0017 8	0018 1	0018 7	0019 2	0019 6	0020 0	0020 4	0021 1	0021 2	*TOTALS
Alimentary System																				
Oral Mucosa										+				+						8
Squamous Cell Carcinoma										X										3
Tooth																				1
Tooth, Incisor	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiovascular System																				
NONE																				
Endocrine System																				
Adrenal Cortex							+	+												2
General Body System																				
NONE																				
Genital System																				
NONE																				
Hematopoietic System																				
Bone Marrow					+														+	4
Femur, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site					X															1
Humerus, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site					X															1

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM IRR FL

DAY ON TEST	0738	0736	0611	0555	0738	0738	0738	0696	0738	0555	0716	0738	0583	0738	0695	0738	0709	0736	0723	
ANIMAL ID	0012 4	0012 5	0013 1	0013 6	0013 9	0015 8	0016 1	0016 4	0017 0	0017 6	0017 8	0018 1	0018 7	0019 2	0019 6	0020 0	0020 4	0021 1	0021 2	*TOTALS
Rib, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site					X															1
Tibia, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site					X															1
Vertebra, Histiocytic Sarcoma, Metastatic, Uncertain Primary Site					X															1
Integumentary System																				
NONE																				
Musculoskeletal System																				
Bone, Femur		+	+		+		+		+		+	+				+	+		+	21
Bone, Humerus			+		+		+		+							+			+	14
Bone, Joint		+	+				+		+		+	+				+	+		+	17
Bone, Mandible						+														1
Osteosarcoma						X														1
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Squamous Cell Carcinoma										X										3
Bone, Radius																				1
Bone, Rib					+															1
Bone, Tibia		+	+		+		+		+		+	+				+	+		+	20
Bone, Vertebra			+		+				+				+			+			+	14
Nervous System																				
NONE																				

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

F 344/N Rat Male
250 PPM IRR FL

DAY ON TEST	0738	0736	0611	0555	0738	0738	0738	0696	0738	0555	0716	0738	0583	0738	0695	0738	0709	0736	0723	
ANIMAL ID	0012 4	0012 5	0013 1	0013 6	0013 9	0015 8	0016 1	0016 4	0017 0	0017 6	0017 8	0018 1	0018 7	0019 2	0019 6	0020 0	0020 4	0021 1	0021 2	*TOTALS
Respiratory System																				
NONE																				
Special Senses System																				
NONE																				
Urinary System																				
NONE																				
SYSTEMIC LESIONS																				
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma					X															1

END OF MALE DATA

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

** END OF REPORT **

* ..Total animals with tissue examined microscopically; Total animals with tumor
\+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically