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Serial: RA-19-0136

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Shearon Harris Nuclear Power Plant, Unit 1
Docket No. 50-400/Renewed License No. NPF-63
Subject: Annual Radiological Environmental Operating Report

Ladies and Gentlemen:

In accordance with Harris Nuclear Plant Technical Specification 6.9.1.3, Duke Energy Progress, LLC, is providing the enclosed Annual Radiological Environmental Operating Report for 2018.

This submittal contains no regulatory commitments. Please refer any questions regarding this submittal to Sarah McDaniel at (919) 362-2002.

Sincerely,


Brian C. McCabe

Enclosure

cc: J. Zeiler, NRC Sr. Resident Inspector, HNP
M. Barillas, NRC Project Manager, HNP
NRC Regional Administrator, Region II



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ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

DUKE ENERGY PROGRESS, LLC

SHEARON HARRIS NUCLEAR POWER PLANT

2018



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LIST OF ACRONYMS USED IN THIS TEXT *(in alphabetical order)*

A	Annually
APAC	Air Particulate Air Cartridge/Radioiodine
AR	Action Request - Corrective Action Program
AREOR	Annual Radiological Environmental Operating Report
BLV	Broadleaf Vegetation
BW	Biweekly
C	Control
DW	Drinking Water
EZA	Eckert and Ziegler Analytics
GEL	General Engineering Laboratory, LLC
GPS	Global Positioning System
GW	Ground Water
HNP	Harris Nuclear Plant or Shearon Harris Nuclear Plant
LLD	Lower Limit of Detection
LUC	Land Use Census
M	Monthly
MAPEP	Department of Energy Mixed Analyte Performance Evaluation Program
MDA	Minimum Detectable Activity
mR/STD Qtr	milliroentgen per standard quarter
MWe	Mega Watts electric
NIST	National Institute of Standards and Technology
NCR	Nuclear Condition Report - Corrective Action Program
NRC	Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
pCi/kg	picocurie per kilogram
pCi/l	picocurie per liter
pCi/m ³	picocurie per cubic meter
Q	Quarterly
REMP	Radiological Environmental Monitoring Program
SA	Semiannually
SM	Semimonthly
SW	Surface Water
TECH SPECS	Technical Specifications
TLD	Thermoluminescent Dosimeter
μCi/ml	microcurie per milliliter
UFSAR	Updated Final Safety Analysis Report
W	Weekly

1.0 EXECUTIVE SUMMARY

This Annual Radiological Environmental Operating Report describes the Shearon Harris Nuclear Plant Radiological Environmental Monitoring Program (REMP), and the program results for the calendar year 2018.

Included in the report are the identification of sampling locations, descriptions of environmental sampling and analysis procedures, comparisons of present environmental radioactivity levels and pre-operational environmental data, analysis of trends in environmental radiological data as potentially affected by plant operations, and a summary of environmental radiological sampling results. Quality assurance practices, sampling deviations, unavailable samples, and program changes are also discussed.

Sampling activities were conducted as prescribed by the Harris Nuclear Plant Offsite Dose Calculation Manual (ODCM). One thousand five hundred and forty-three samples were analyzed comprising 1,613 test results in order to compile data for the 2018 report. Based on the annual land use census, the current number of sampling sites for Harris Nuclear Plant is sufficient.

Concentrations observed in the environment in 2018 for plant related radionuclides were generally within the ranges of concentrations observed in the past. Inspection of the data showed that radioactivity concentrations in drinking water, ground water, surface water, bottom sediment, and aquatic vegetation are higher than the activities reported for samples collected prior to the operation of the station. Measured concentrations, including tritium, were not higher than expected and all positively identified measurements attributable to station operation were within limits as specified in the HNP ODCM and regulatory limits.

2.0 INTRODUCTION

2.1 SITE DESCRIPTION AND SAMPLE LOCATIONS

Duke Energy Corporation's Shearon Harris Nuclear Plant is a one-unit facility located on the shore of Harris Lake in southwest Wake County, North Carolina. The pressurized water reactor nuclear steam supply system furnished by Westinghouse Electric Corporation is designed to produce a net electrical output of approximately 930 MWe. Initial criticality was achieved on January 3, 1987.

Condenser cooling is accomplished utilizing a closed system incorporating a cooling tower, instead of using lake water directly. Liquid effluents are released into Harris Lake via the station discharge canal and are not accompanied by the large additional dilution water flow associated with "once-through" condenser cooling. This design results in greater radionuclide concentrations in the discharge canal given comparable liquid effluent source terms.

Sampling locations are chosen based upon meteorological factors, preoperational monitoring, and results of the land use surveys. Figure 2.1-1 is a map of the HNP site boundary. Sample points beyond the site boundary are considered offsite. Figures 2.1-2 and 2.1-3 are maps depicting the Thermoluminescent Dosimeter (TLD) monitoring locations and the sampling locations. The location numbers shown on these maps correspond to those listed in Tables 2.1-A and 2.1-B. Figure 2.1-2 comprises all sample locations within a one mile radius of HNP. Figure 2.1-3 comprises all sample locations within a 10 mile radius of HNP.

2.2 SCOPE AND REQUIREMENTS OF THE REMP

An environmental monitoring program has been in effect at Harris Nuclear Plant since 1982, five years prior to commencing operation. The preoperational program provides data on the existing environmental radioactivity levels for the site and vicinity, which may be used to determine whether increases in environmental levels are attributable to the station. The operational program provides surveillance and backup support of detailed effluent monitoring which is necessary to evaluate the significance, if any, of the contributions to the existing environmental radioactivity levels that result from station operation.

This monitoring program is based on NRC guidance and is conducted in accordance with Operational Requirement 3.12.1 in the HNP Offsite Dose Calculation Manual and applicable procedures; with regards to sample media, sampling locations, sampling frequency and analytical sensitivity requirements. Indicator and control locations were established for comparison purposes to distinguish radioactivity of plant origin from natural or other "man-made" environmental radioactivity. The environmental monitoring program also verifies projected and anticipated radionuclide concentrations in the environment and related exposures from releases of radionuclides from Shearon Harris Nuclear Plant. This program satisfies the requirements of Section IV.B.2 of Appendix I to 10CFR50 and provides surveillance of all appropriate critical exposure pathways to man and protects vital interests of the company, public and state and federal

agencies concerned with the environment. Reporting levels for activity found in environmental samples are listed in Table 2.2-A. Table 2.2-B lists the REMP analysis and frequency schedule. The Annual Land Use Census, required by the HNP Offsite Dose Calculation Manual is performed to ensure that changes in the use of areas at or beyond the site boundary are identified and that modifications to the REMP are made if required by changes in land use. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10CFR50. Results are shown in Table 3.13.

Participation in an interlaboratory comparison program is performed in fulfillment of HNP ODCM Operational Requirements. The comparison program provides for independent checks on the precision and accuracy of measurements of radioactive material in REMP sample matrices. Such checks are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are valid for the purposes of Section IV.B.2 of Appendix I to 10CFR50. A summary of the results obtained as part of this comparison program are in Section 4 of this annual report.

2.3 STATISTICAL AND CALCULATIONAL METHODOLOGY

2.3.1 ESTIMATION OF THE MEAN VALUE

There was one (1) basic statistical calculation performed on the raw data resulting from the environmental sample analysis program. The calculation involved the determination of the mean value for the indicator and the control samples for each sample medium. The mean is a widely used statistic. This value was used in the reduction of the data generated by the sampling and analysis of the various media in the Radiological Environmental Monitoring Program. "Net activity (or concentration)" is the activity (or concentration) determined to be present in the sample. No "Minimum Detectable Activity", "Lower Limit of Detection", "Less Than Level", or negative activities or concentrations are included in the calculation of the mean. The following equation was used to estimate the mean:

$$\bar{x} = \frac{\sum_{i=1}^N x_i}{N}$$

Where:

\bar{x} = estimate of the mean,

i = individual sample,

N = total number of samples with a net activity (or concentration),

x_i = net activity (or concentration) for sample i.

2.3.2 LOWER LIMIT OF DETECTION AND MINIMUM DETECTABLE ACTIVITY

The Lower Limit of Detection (LLD) and Minimum Detectable Activity (MDA) are used throughout the REMP.

LLD - The LLD, as defined in the ODCM as the smallest concentration of radioactive material in a sample that will yield a net count, above the system background, that will be detected with 95% probability with only 5% probability of falsely concluding that a blank observation represents a "real" signal. The LLD is an *a priori* (before the fact) lower limit of detection. The actual LLD is dependent upon the standard deviation of the background-counting rate, the counting efficiency, the sample size (mass or volume), the radiochemical yield and the radioactive decay of the sample between sample collection and counting. The "required" LLDs for each sample medium and selected radionuclides are given in the ODCM and are listed in Table 2.2-C.

MDA - The MDA is the net counting rate (sample after subtraction of background) that must be surpassed before a sample is considered to contain a scientifically measurable amount of a radioactive material exceeding background amounts. The MDA is calculated using a sample background and may be thought of as an "actual" LLD for a particular sample measurement. Certain gross counting measurements display a calculated negative value, indicating background is greater than sample activity.

2.3.3 TREND IDENTIFICATION

One of the purposes of an environmental monitoring program is to determine if there is a buildup of radionuclides in the environment due to the operation of the nuclear plant. Visual inspection of tabular or graphical presentations of data (including preoperational) is used to determine if a trend exists. A decrease in a particular radionuclide's concentration in an environmental medium does not indicate that reactor operations are removing radioactivity from the environment, but that reactor operations are not adding that radionuclide to the environment in quantities exceeding the preoperational level and that the normal removal processes (radioactive decay, deposition, resuspension, etc.) are influencing the concentration.

Substantial increases or decreases in the amount of a particular radionuclide's release from the nuclear plant will greatly affect the resulting environmental levels; therefore, a knowledge of the release of a radionuclide from the nuclear plant is necessary to completely interpret the trends, or lack of trends, determined from the environmental data. Factors that may affect environmental levels of radionuclides include prevailing weather conditions (periods of drought, solar cycles or heavier than normal precipitation), construction in or around either the nuclear plant or the sampling location, and addition or deletion of other sources of radioactive materials (such as the 1986 Chernobyl accident and the Japan earthquake and tsunami, which triggered the 2011 Fukushima Dai-ichi Nuclear Power Plant incident). Some of these factors may be obvious while others are sometimes unknown. Therefore, how trends are identified will include some judgment by plant personnel.

Figure 2.1-1

Map of Site Boundary

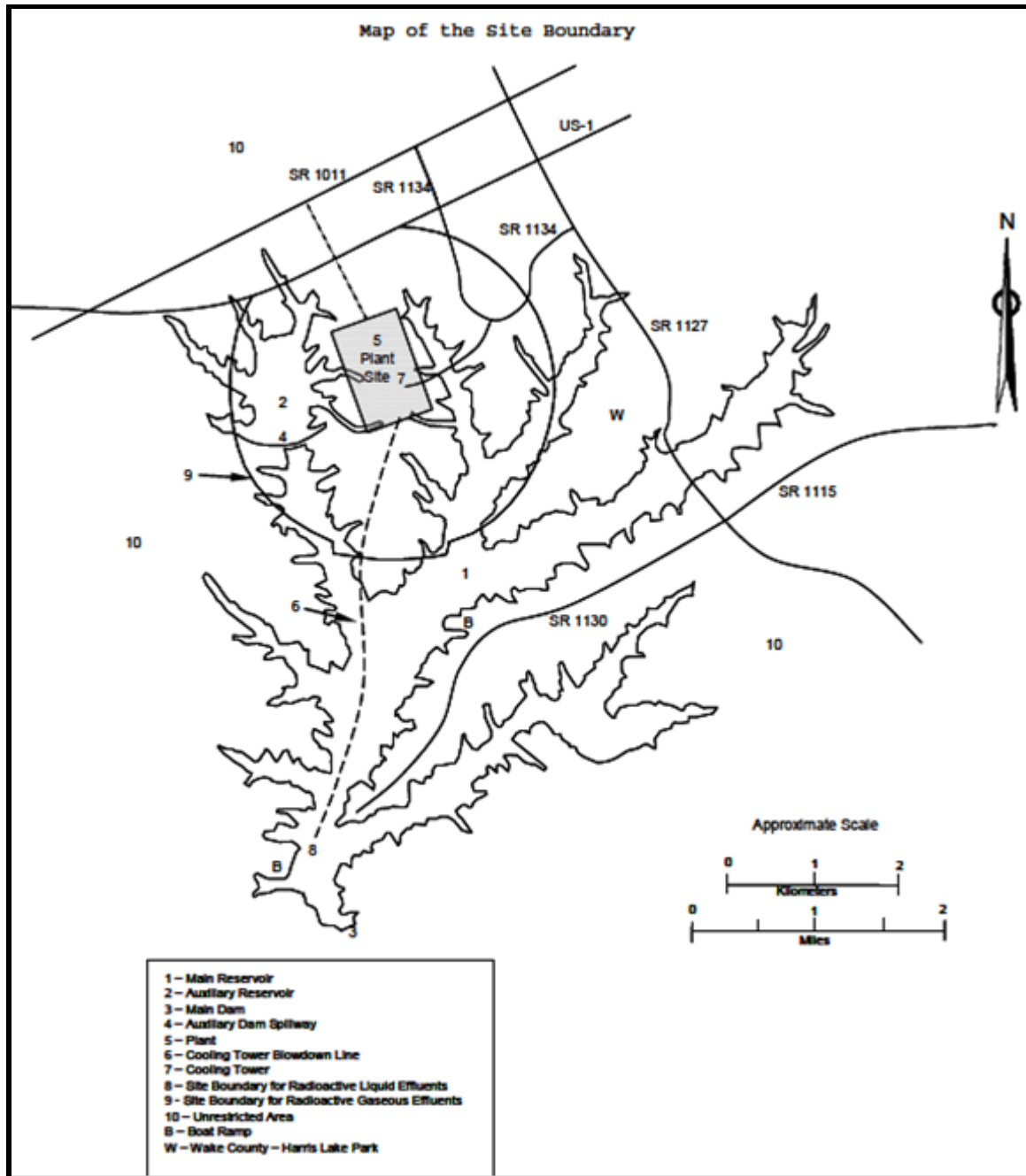


Figure 2.1-2

Harris Nuclear Plant Sampling Locations - One Mile Radius

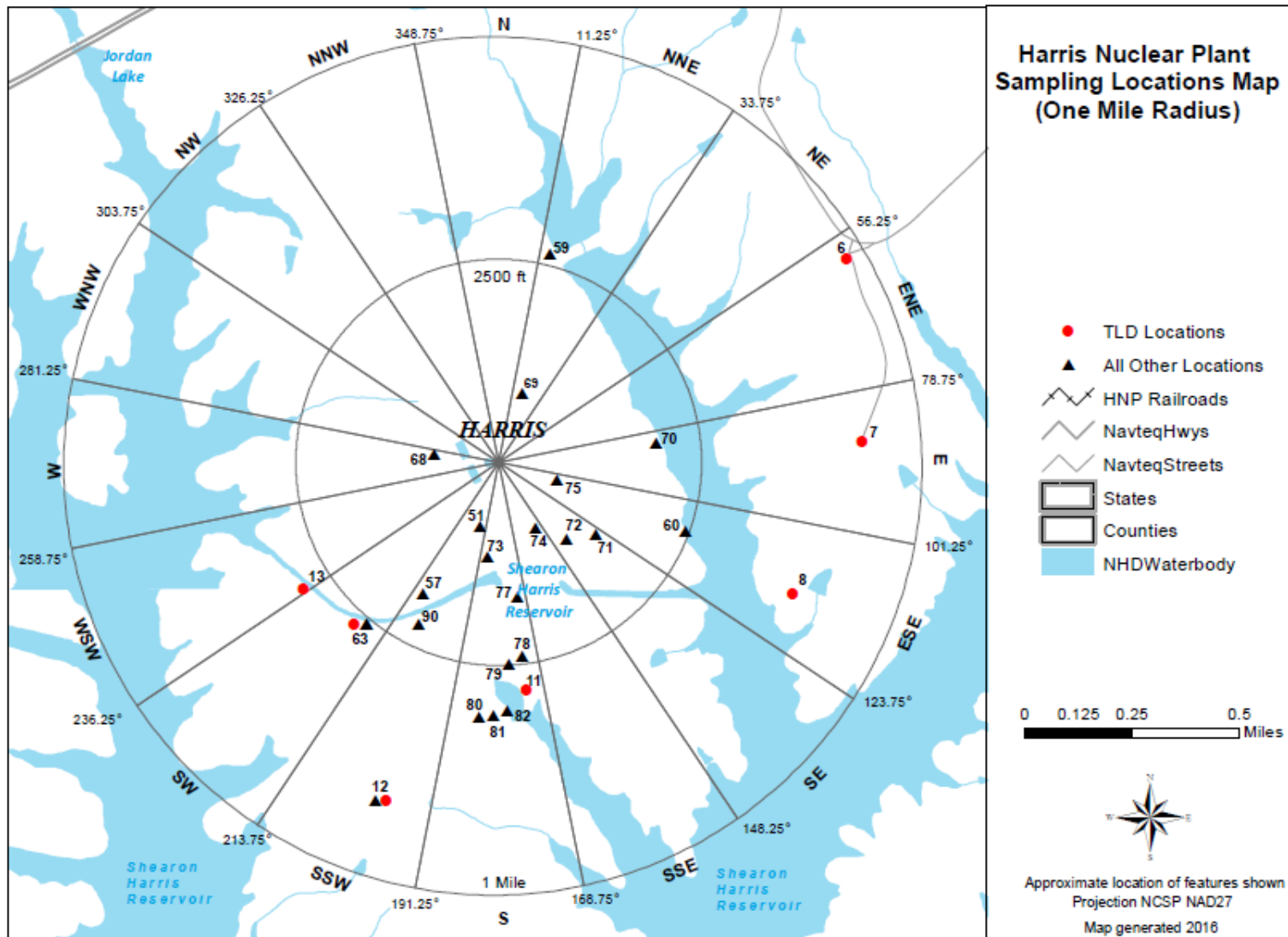


Figure 2.1-3

Harris Nuclear Plant Sampling Locations - Ten Mile Radius

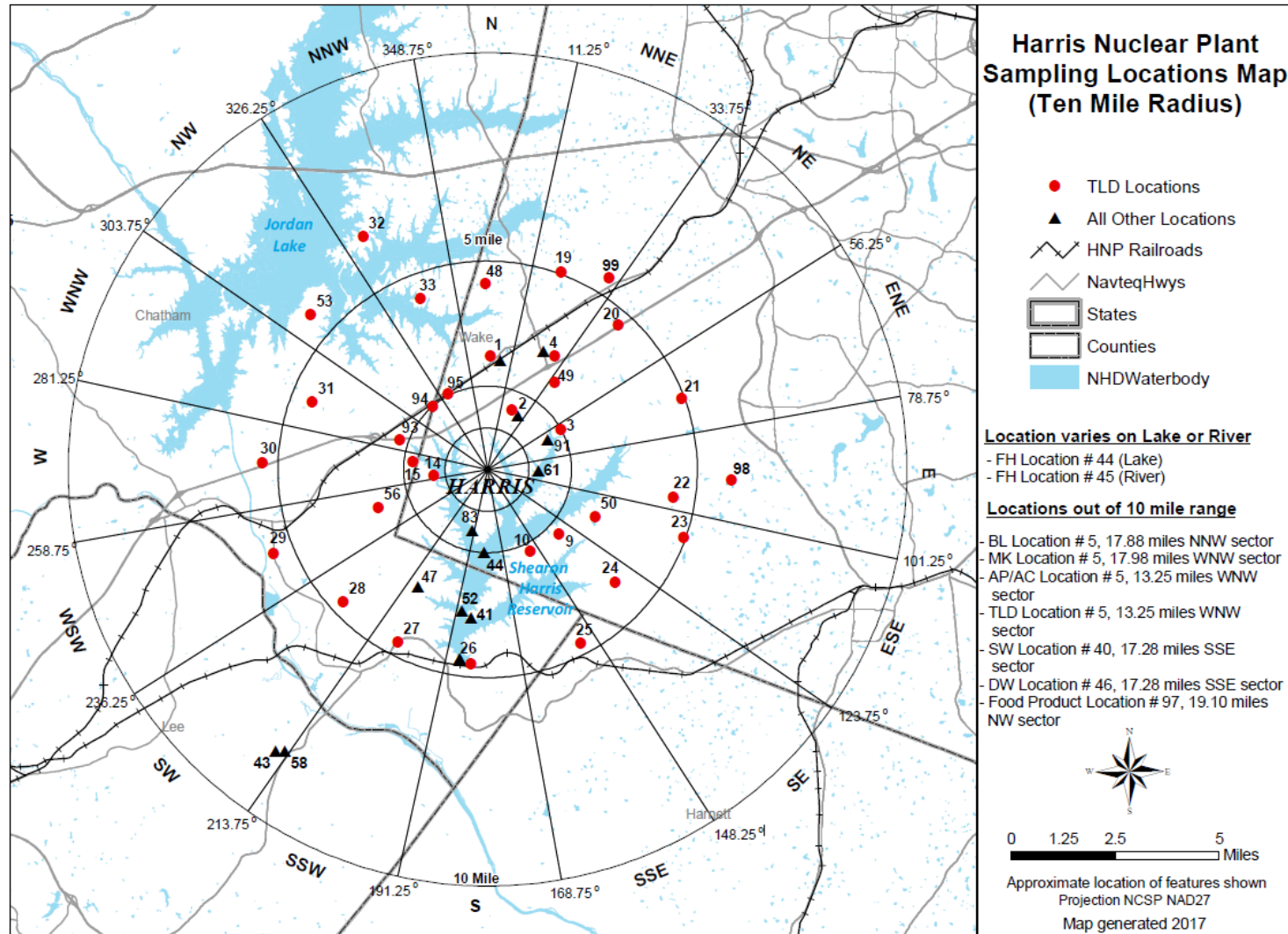


TABLE 2.1-A

HARRIS NUCLEAR PLANT

RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS

Table 2.1-B Codes				Table 2.1-B Codes (Cont.)					
W	Weekly	SM	Semimonthly	AC	Air Cartridge	SB	Sediment Bottom	FI	Fish
BW	BiWeekly	Q	Quarterly	AP	Air Particulate	AV	Aquatic Vegetation	MK	Milk
M	Monthly	SA	Semiannually	SW	Surface Water	FP	Food Product		
A	Annual			DW	Drinking Water	BLV	Broadleaf Vegetation		
C	Control	I	Indicator	SS	Sediment Shoreline	GW	Ground Water		

Site #	Type	Location Description ⁽⁴⁾	AC & AP	SW	DW	SS	SB	AV	FP ⁽¹⁾	Fish (FI)	Milk (Mk)	BLV ⁽²⁾	GW
1	I	0.1 mi. S on SR 1134 from SR 1011 Intersection, N sector, 2.6 mi. from site.	W/Q										
2	I	1.4 mi. S on SR 1134 from SR 1011 intersection, NNE sector, 1.4 mi. from site.	W/Q										
4	I	0.7 mi. N on SR 1127 from intersection with US, NNE sector, 3.1 mi. from site	W/Q										
5	C	Pittsboro, WNW sector, >12 mi. from site	W/Q								SM/M	M ⁽²⁾	
12	I	SHNPP Site, SSW sector, 0.9 mi. from site.										M ⁽²⁾	
26	I	Harris Lake Spillway, S sector, 4.7 mi. from site.	W/Q	M		SA		A					
40	I	NE Harnett Metro Water Treatment Plant Intake building, SSE sector, 17.2 mi. from site.		M									
41	I	Shoreline of Mixing Zone of Cooling Tower Blowdown Line, S sector, 3.8 mi. from site.				SA		A					
43	C	Sanford Water Treatment Plant, SW sector, 8.5 mi. from site.		M									
44	I	Site varies within Harris Lake								SA			
45	C	Site varies above Buckhorn Dam on Cape Fear River								SA			
46	I	NE Harnett Metro Water Treatment Plant Intake building, SSE sector, 17.2 mi. from site.			BW/M								
47	I	1.3 mi. N on SR 1912 from intersection of NC 42, SSW sector, 3.4 mi. from site.	W/Q										
51	I	SHNPP Water Treatment Plant (On Site)			BW/M								
52	I	Harris Lake in the Vicinity of the Mixing Zone of the Cooling Tower, S sector, 3.8 mi. of site.					SA						
57	I	SHNPP Site (LP-13), N. side of Aux Res Intake canal, SSW sector, 0.4 mi. from site.											Q
58	C	Sanford Water Treatment Plant, SW sector, 8.5 mi. from site.			BW/M								
59	I	SHNPP Site (W-13), N. Side of Old Construction Road, NNE sector, 0.5 mi. from site.											Q
60	I	SHNPP Site, (W-9A), W. bank of Harris Lake SE of Cooling Tower, ESE sector, 0.5 mi. from site.											Q
61	C	Harris Lake East of New Hill-Holleman Rd, E sector, 2.5 mi. of site.						A					

Site #	Type	Location Description ⁽⁴⁾	AC & AP	SW	DW	SS	SB	AV	FP ⁽¹⁾	Fish (FI)	Milk (Mk)	BLV ⁽²⁾	GW
63	I	SHNPP Site, SW sector, 0.6 mi. from site.	W/Q									M ⁽²⁾	
68	I	SHNPP Site (LP-6), N. of Old Steam Generator building, W sector, 0.2 mi. of site.											Q
69	I	SHNPP Site, (LP-7), N. side of Warehouse 9, NNE sector, 0.2 mi. from site.											Q
70	I	SHNPP Site (LP-9), N. side of Plant Entrance, E sector, 0.4 mi. of site.											Q
71	I	SHNPP Site (LP-16), S. of Switchyard, SE sector, 0.3 mi. of site.											Q
72	I	SHNPP Site (MWA-12), N. of Cooling Tower Makeup Water Intake Structures, SE sector, 0.2 mi. from site.											Q
73	I	SHNPP Site, N. of Emergency Service Water Screening Structure, SE sector, 0.2 mi. from site.											Q
74	I	SHNPP Site, N. of helicopter landing pad, SSE sector, 0.2 mi. from site.											Q
75	I	SHNPP Site, W. of Security Building Entrance, ESE sector, 0.1 mi from site.											Q
77	I	SHNPP Site (BD-MW1), Along the Cooling Tower Blowdown Line, S sector, 0.4 mi. from site.											Q
78	I	SHNPP Site (BD-MW2), Along the Cooling Tower Blowdown Line, S sector, 0.5 mi. from site.											Q
79	I	SHNPP Site (BD-MW3), Along the Cooling Tower Blowdown Line, S sector, 0.5 mi. from site.											Q
80	I	SHNPP Site (BD-MW5), Along the Cooling Tower Blowdown Line, S sector, 0.6 mi. from site.											Q
81	I	SHNPP Site (BD-MW7), Along the Cooling Tower Blowdown Line, S sector, 0.6 mi. from site.											Q
82	I	SHNPP Site (BD-MW8), Along the Cooling Tower Blowdown Line, S sector, 0.6 mi. from site.											Q
83	I	SHNPP Site (BD-MW16), Along the Cooling Tower Blowdown Line, S sector, 1.6 mi. from site.											Q
90	I	SHNPP Site, SSW sector, 0.5 mi. from site.	W/Q										
91	I	HE&EC, Sewage Treatment Facility, ENE sector, 1.6 mi. from site.	W/Q										
97	C	Granite Springs Farm, NW sector, 19.1 mi. from site.							M ⁽¹⁾				
102	I	Goat Farm, W sector, 2.82 mi. from site.									SM ⁽³⁾		

(1) When Available, during Harvest/Growing Season

(2) During Growing Season per ODCM – May through October

(3) When goats are lactating

(4) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.1-B**HARRIS NUCLEAR PLANT****RADIOLOGICAL MONITORING PROGRAM SAMPLING LOCATIONS (TLD SITES)**

Table 2.1-C Codes			
IR	Inner Ring	OR	Outer Ring
C	Control	SI	Special Interest

Site #	Measure Type	Location ⁽¹⁾	Distance (miles)	Sector	Site #	Measure Type	Location ⁽¹⁾	Distance (miles)	Sector
1	IR	0.1 mi. on SR 1134 from SR 1011 intersection	2.6	N	25	OR	0.2 mi. W on SR 1402 from intersection of SR 1400.	4.7	SSE
2	IR	1.4 mi. S on SR 1134 from SR 1011 intersection	1.4	NNE	26	OR	Harris lake Spillway	4.7	S
3	SI	HE&EC Visitor Center (Population Center)	1.9	ENE	27	OR	NC 42 @ Buckhorn United Methodist Church	4.8	SSW
4	SI	New Hill (Population Center), 0.7 mi. N on SR 1127 from intersection with US 1	3.1	NNE	28	OR	0.6mi. on SR 1924 from intersection of SR 1916.	4.8	SW
5	C	Pittsboro	13.3	WNW	29	OR	Parking Lot of Arclyn, Inc. on SR 1916.	5.7	WSW
6	IR	Intersection of SR 1134 & SR 1135	0.8	ENE	30	OR	Exit intersection of SR 1972 and US 1	5.6	W
7	IR	Extension of SR 1134	0.7	E	31	OR	At intersection of SR 1908, 1909, 1910.	4.7	WNW
8	IR	Dead end of road. Extension of SR 1134.	0.6	ESE	32	SI	Jordan Lake (Population Center), SR 1008.	6.4	NNW
9	IR	1 mi. S on SR 1130 from intersection of SR 1127, 1115, and 1130.	2.2	SE	33	OR	SR 1142. 1.7 mi. from intersection of SR 1141.	4.5	NNW
10	IR	SR 1130 S of intersection of SR 1127, 1115, and 1130.	2.2	SSE	48	OR	SR 1142. 1.5 mi. from intersection of SR 1141.	4.5	N
11	IR	SHNPP site	0.6	S	49	IR	SR 1127. 0.3 mi. S from intersection with US 1.	2.5	NE
12	IR	SHNPP site	0.9	SSW	50	SI	Holleman Crossroad (Population Center), SR 1127 W from intersection SR 1115 and 1130.	2.6	ESE
13	IR	SHNPP site	0.7	WSW	53	OR	SR 1972 N from intersection of SR 1910 and SR 1972.	5.8	NW
14	IR	SHNPP site. Access road to aux. reservoir.	1.5	W	56	IR	SR 1912 at intersection of SR 1912 and SR 1924.	3.0	WSW
15	IR	SR 1911.	2.0	W	63	IR	SHNPP site	0.6	SW
19	OR	0.6 mi. E on SR 1142 from intersection of SR 1141.	5.0	NNE	93	IR	SR 1911	2.2	WNW
20	OR	US 1 at intersection SR 1149.	4.5	NE	94	IR	Old US HWY 1	2.0	NW
21	OR	1.2 mi. W on SR 1152 from intersection SR 1153.	4.8	ENE	95	IR	Bonsal Rd.	2.0	NNW
22	OR	Formerly Ragan's Dairy on SR 1115.	4.3	E	98	SI	Holly Springs School Complex (Population Center)	5.9	E
23	OR	Intersection of SR 1127 and SR 1116.	4.8	ESE	99	SI	Friendship High School (Population Center)	5.5	NNE
24	OR	Sweet Springs Church on SR 1116.	4.0	SE					

(1) GPS data reflect approximate accuracy to within 2-5 meters. GPS field measurements were taken as close as possible to the item of interest.

TABLE 2.2-A

**REPORTING LEVELS FOR RADIOACTIVITY
CONCENTRATIONS IN ENVIRONMENTAL SAMPLES**

Analysis	Water (pCi/liter)	Airborne Particulate or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Food Products (pCi/kg-wet)
H-3	20,000 ^(a)				
Mn-54	1,000		30,000		
Fe-59	400		10,000		
Co-58	1,000		30,000		
Co-60	300		10,000		
Zn-65	300		20,000		
Zr-Nb-95	400				
I-131	2 ^(b)	0.9		3	100
Cs-134	30	10	1,000	60	1,000
Cs-137	50	20	2,000	70	2,000
Ba-La-140	200			300	

(a) For drinking water samples. This is 40 CFR Part 141 value. If no drinking water pathway exists, a value of 30,000 pCi/liter may be used.

(b) If no drinking water pathway exists, a value of 20 pCi/liter may be used.

TABLE 2.2-B

REMP ANALYSIS FREQUENCY

Sample Medium	Analysis Schedule	Gamma Isotopic	Tritium	Low Level I-131	Gross Beta	TLD
Air Radioiodine	Weekly	X				
Air Particulate	Weekly				X	
	Quarterly	X				
Direct Radiation	Quarterly					X
Surface Water	Monthly Composite ^(d)	X	X		X	
Drinking Water	Monthly Composite ^(c)	X	X			
Ground Water	Quarterly	X	X			
Bottom Sediment	Semiannually	X				
Shoreline Sediment	Semiannually	X				
Milk	Semimonthly/Monthly	X		X		
Fish	Semiannually	X				
Aquatic Vegetation	Annually	X				
Broadleaf Vegetation	Monthly ^(a)	X				
Food Products	Monthly ^(b)	X				

(a) During growing season per ODCM - May through October

(b) When Available

(c) Low-level I-131 will be analyzed on each composite when the dose calculated for the consumption of the water is greater than 1 mrem/yr.

(d) 1st quarter only; Analysis Discontinued (AR # 02240431)

TABLE 2.2-C**DETECTION CAPABILITIES FOR THE *A PRIORI* LOWER LIMIT OF DETECTION**

Analysis	Water (pCi/liter)	Airborne Particulates or Gases (pCi/m ³)	Fish (pCi/kg-wet)	Milk (pCi/liter)	Food Products (pCi/kg-wet)	Sediment (pCi/kg-dry)
Gross Beta	4	0.01				
H-3	2000 ^(a)					
Mn-54	15		130			
Fe-59	30		260			
Co-58, 60	15		130			
Zn-65	30		260			
Zr-Nb-95	15					
I-131	1 ^(b)	0.07		1	60	
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180
Ba-La-140	15			15		

(a) If no drinking water pathway exists, a value of 3000 pCi/liter may be used.

(b) If no drinking water pathway exists, a value of 15 pCi/liter may be used.

3.0 INTERPRETATION OF RESULTS

Review of all 2018 REMP analysis results was performed to identify changes in environmental levels as a result of plant operations. The following section depicts and explains the review of these results. Sample data for 2018 was compared to historical data. Over the years of operation, analysis and collection changes have taken place that do not allow direct comparisons for some data collected from 1984 (preoperational) through 2018. Summary tables containing 2018 information required by Technical Specifications 6.9.1.3 and HNP ODCM E.3 are located in Appendix B. REMP results for 2018 are located in Appendix E.

Evaluation for significant trends was performed for radionuclides that are listed as required within the HNP ODCM. The radionuclides include: H-3, Mn-54, Fe-59, Co-58, Co-60, Zn-65, Zr-95, Nb-95, I-131, Cs-134, Cs-137, Ba-140 and La-140. Other radionuclides detected that are the result of plant operation, but not required for reporting, are trended.

The HNP ODCM addresses actions to be taken if radionuclides other than those required are detected in samples collected. The occurrences of these radionuclides could be the result of HNP liquid effluents which contained the radionuclides.

All 2018 sample analysis results were reviewed to detect and identify any significant trends. All negative concentration values were replaced with zero for calculation purposes. Any zero concentrations used in tables or graphs represent activity measurements less than detectable levels.

Review of the 2018 data presented in this section supports the conclusion that there were no significant changes in environmental sample radionuclide concentrations of samples collected and analyzed from HNP and surrounding areas that were attributable to plant operations. Inspection of the data showed that radioactivity concentrations were as expected and all positively identified measurements attributed to plant operations were within HNP ODCM regulatory limits; thus presenting no significant impact to the environment or public health and safety.

Data presented in Sections 3.1 through 3.12 support the conclusion that there was no significant increase in radioactivity in the environment around Harris Nuclear Plant due to station operations in 2018. Similarly, there was no significant increase in ambient background radiation levels in the surrounding areas. The 2018 land use census data, shown in Section 3.13, indicates that no program changes are required as a result of the census.

3.1 AIRBORNE RADIOIODINE AND PARTICULATES

In 2018, 468 radioiodine and particulate samples were analyzed, 416 from eight indicator locations and 52 at the control location. Particulate samples were analyzed weekly for gross beta. A quarterly gamma analysis was performed on the quarterly filter composite (by location).

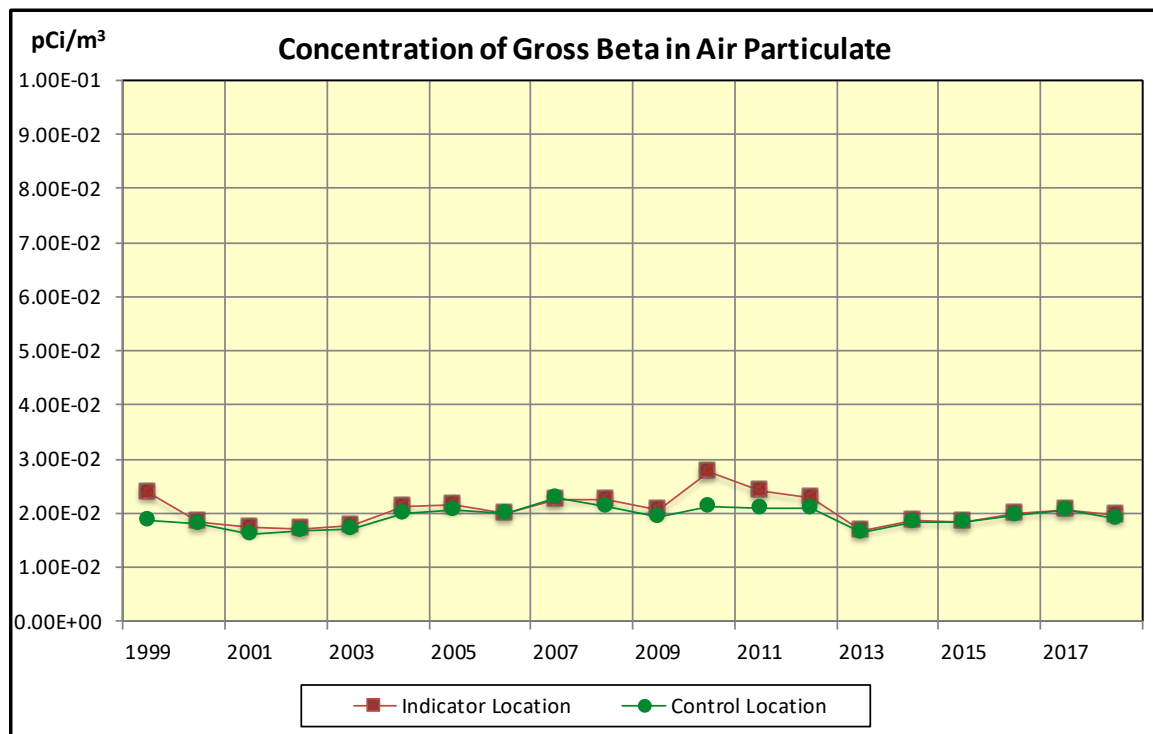
Figure 3.1 shows individual sample gross beta results for the indicator location with highest annual mean and the control location samples during 2018. The two sample locations' results are similar in concentration and have varied negligibly.

There were no detectable gamma emitters attributable to plant operations identified for particulate filters analyzed during 2018. Table 3.1-A shows the highest indicator annual mean and control location annual mean for gross beta in air particulate.

There was no detectable I-131 in air radioiodine samples analyzed in 2018. Table 3.1-B shows the highest indicator annual mean and control location annual mean for I-131 since 1999. The table shows similar concentrations for both the indicator and control locations. No I-131 activity due to HNP operations has been detected during the entire operating history of the plant.

K-40 and Be-7 were observed in air samples and quarterly particulate composites but are naturally occurring radionuclides.

Figure 3.1



There is no reporting level for gross beta in air particulate

Table 3.1-A Mean Concentration of Gross Beta in Air Particulate

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
1999	2.38E-2	1.87E-2
2000	1.83E-2	1.80E-2
2001	1.74E-2	1.60E-2
2002	1.70E-2	1.67E-2
2003	1.78E-2	1.70E-2
2004	2.13E-2	2.00E-2
2005	2.14E-2	2.07E-2
2006	1.99E-2	1.98E-2
2007	2.26E-2	2.29E-2
2008	2.25E-2	2.13E-2
2009	2.07E-2	1.92E-2
2010	2.76E-2	2.12E-2
2011	2.40E-2	2.10E-2
2012	2.29E-2	2.10E-2
2013	1.67E-2	1.65E-2
2014	1.86E-2	1.82E-2
2015	1.82E-2	1.82E-2
2016	1.98E-2	1.95E-2
2017	2.06E-2	2.05E-2
2018	1.96E-2	1.89E-2

Table 3.1-B Mean Concentration of Air Radioiodine (I-131)

Year	Indicator Location (pCi/m ³)	Control Location (pCi/m ³)
1999	0.00E+0	0.00E+0
2000	0.00E+0	0.00E+0
2001	0.00E+0	0.00E+0
2002	0.00E+0	0.00E+0
2003	0.00E+0	0.00E+0
2004	0.00E+0	0.00E+0
2005	0.00E+0	0.00E+0
2006	0.00E+0	0.00E+0
2007	0.00E+0	0.00E+0
2008	0.00E+0	0.00E+0
2009	0.00E+0	0.00E+0
2010	0.00E+0	0.00E+0
2011 ⁽¹⁾	1.66E-1	1.08E-1
2012	0.00E+0	0.00E+0
2013	0.00E+0	0.00E+0
2014 ⁽²⁾	0.00E+0	0.00E+0
2015	0.00E+0	0.00E+0
2016	0.00E+0	0.00E+0
2017	0.00E+0	0.00E+0
2018	0.00E+0	0.00E+0

0.00E+0 indicates no detectable measurements

(1) 2011 concentrations affected by Fukushima Dai-ichi

(2) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were observed due to the 2014 gamma spectroscopy system change.

3.2 DRINKING WATER

Gross beta analysis, tritium, and gamma spectroscopy were performed on 39 drinking water samples. Two indicator locations were sampled, along with one control location.

No gamma emitting radionuclides attributable to plant operations were identified in any 2018 drinking water samples. There have been no gamma emitting radionuclides attributable to plant operations identified in drinking water samples during the entire operating history of the plant.

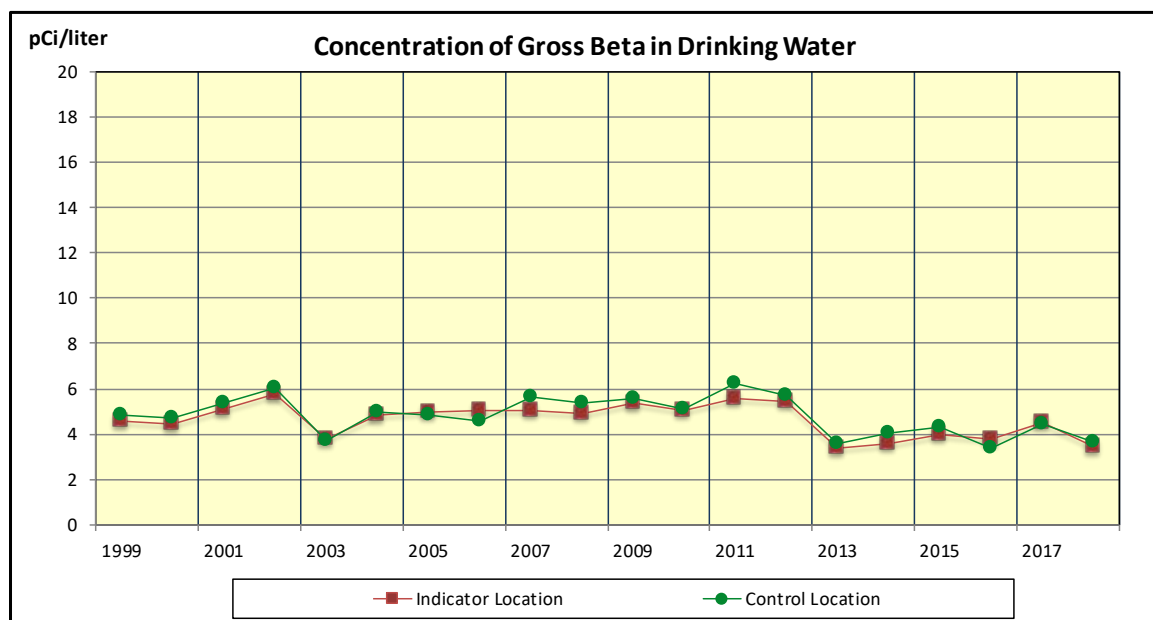
Figure 3.2-1 and Table 3.2 shows highest annual mean gross beta concentrations for the indicator locations and control location since 1999. The indicator locations (downstream of the plant effluent release point) average concentration was 3.48 pCi/l in 2018 and the control location concentration was 3.68 pCi/l. The table shows that current gross beta levels are not statistically different from 1999.

Tritium was detected in thirteen indicator samples from Location 51 and in no control samples during 2018. The mean indicator tritium concentration for 2018 was 3,270 pCi/l, 16.35% of reporting level. Figure 3.2-2 and Table 3.2 display the highest indicator and control location annual mean concentrations for tritium since 1999.

The dose for consumption of water was less than one mrem per year, historically and for 2018; therefore, low-level iodine analysis is not required.

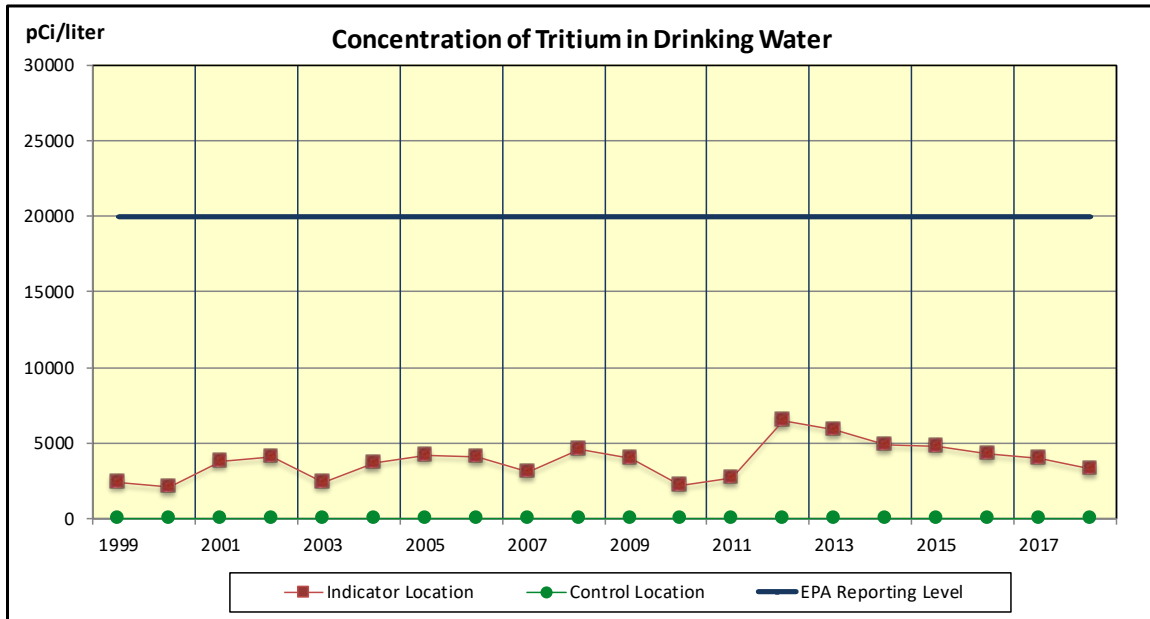
K-40 and Be-7 are naturally occurring radionuclides that were observed in drinking water samples in 2018.

Figure 3.2-1



There is no reporting level for gross beta in drinking water

Figure 3.2-2



Prior to 2009, drinking water indicator location # 51 was previously not classified as a public drinking water source. In 2009, location # 51 was classified as a public drinking water source; however, it is not a community drinking water source.

Table 3.2 Mean Concentration of Radionuclides in Drinking Water

YEAR	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
1999	4.55E+0	4.83E+0	2.37E+3	0.00E+0
2000	4.45E+0	4.73E+0	2.06E+3	0.00E+0
2001	5.11E+0	5.39E+0	3.76E+3	0.00E+0
2002	5.80E+0	6.03E+0	4.07E+3	0.00E+0
2003	3.81E+0	3.69E+0	2.40E+3	0.00E+0
2004	4.82E+0	4.96E+0	3.66E+3	0.00E+0
2005	4.95E+0	4.86E+0	4.20E+3	0.00E+0
2006	5.07E+0	4.58E+0	4.03E+3	0.00E+0
2007	5.01E+0	5.67E+0	3.12E+3	0.00E+0
2008	4.92E+0	5.40E+0	4.54E+3	0.00E+0
2009	5.37E+0	5.58E+0	3.95E+3	0.00E+0
2010	5.07E+0	5.09E+0	2.23E+3	0.00E+0
2011	5.58E+0	6.22E+0	2.65E+3	0.00E+0
2012	5.47E+0	5.69E+0	6.51E+3	0.00E+0
2013	3.37E+0	3.60E+0	5.89E+3	0.00E+0
2014	3.56E+0	4.06E+0	4.83E+3	0.00E+0
2015	3.97E+0	4.28E+0	4.74E+3	0.00E+0
2016	3.76E+0	3.40E+0	4.32E+3	0.00E+0
2017	4.52E+0	4.44E+0	4.02E+3	0.00E+0
2018	3.48E+0	3.68E+0	3.27E+3	0.00E+0

0.00E+0 indicates no detectable measurements

Prior to 2009, drinking water indicator location # 51 was previously not classified as a public drinking water source. In 2009, location # 51 was classified as a public drinking water source; however, it is not a community drinking water source.

3.3 SURFACE WATER

A total of 39 monthly surface water samples were analyzed for gamma emitting radionuclides and tritium. Two indicator locations and one control location were sampled.

Location 26, Harris Lake Spillway, is the only indicator location sample that contained tritium with an average concentration of 7,460 pCi/l and showed a range of activities from 3,620 to 12,800 pCi/l. Tritium was not detected in the thirteen control samples collected during 2018.

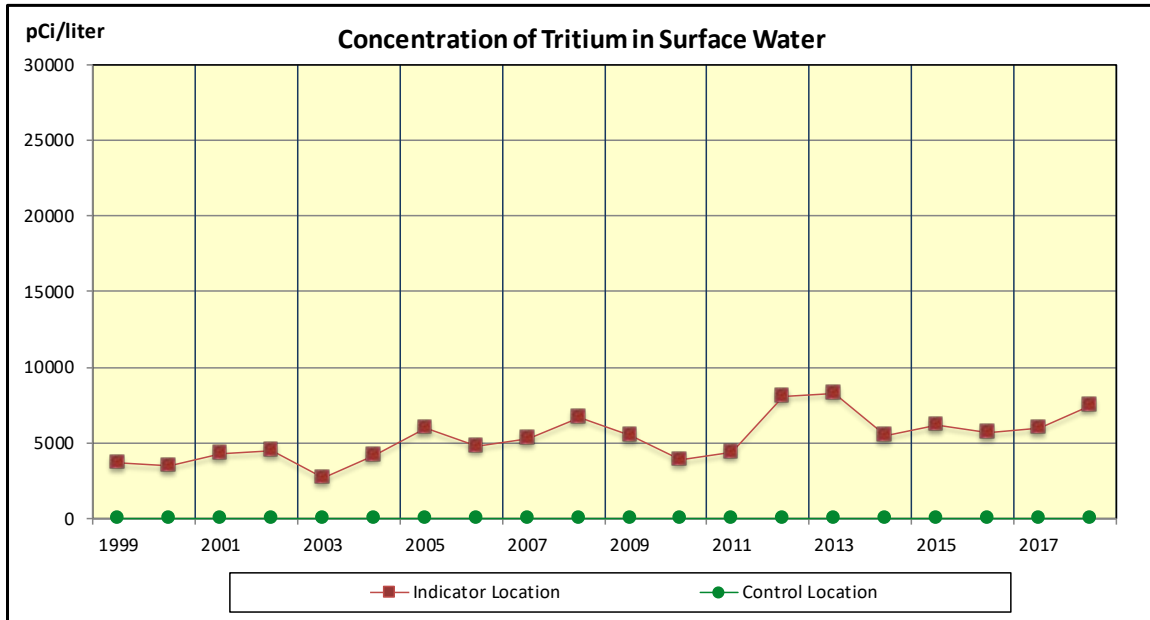
No gamma emitting radionuclides attributable to plant operations were identified in 2018 surface water samples. Table 3.3 summarizes the indicator annual means of radionuclides detected since 1999. Visual inspection of the tabular data did not reveal any increasing trends.

Surface water samples were only analyzed for Gross Beta in the first quarter of 2018. Gross Beta is not a required sample analysis per the HNP ODCM. Self-Assessment AR# 02240431 determined the gross beta analysis was not required and the analysis was discontinued. Average gross beta concentrations at the indicator and control locations during the first quarter of 2018 were 5.12 pCi/l and 4.72 pCi/l, respectively.

Figure 3.3 displays the highest indicator and control annual means for tritium since 1999.

K-40 and Be-7 are naturally occurring radionuclides that were observed in surface water samples in 2018.

Figure 3.3



There is no reporting level for tritium in surface water, however, if no drinking water pathway exists, a value of 30,000 pCi/l may be used.

Table 3.3 Mean Concentrations of Radionuclides in Surface Water

YEAR	Gross Beta (pCi/l)		Tritium (pCi/l)	
	Indicator Location	Control Location	Indicator Location	Control Location
1999	4.55E+0	4.83E+0	3.63E+3	0.00E+0
2000	4.45E+0	4.73E+0	3.52E+3	0.00E+0
2001	5.11E+0	5.39E+0	4.31E+3	0.00E+0
2002	5.80E+0	6.03E+0	4.49E+3	0.00E+0
2003	3.81E+0	3.69E+0	2.67E+3	0.00E+0
2004	4.82E+0	4.96E+0	4.20E+3	0.00E+0
2005	4.95E+0	4.86E+0	5.94E+3	0.00E+0
2006	5.07E+0	4.58E+0	4.73E+3	0.00E+0
2007	5.01E+0	5.67E+0	5.26E+3	0.00E+0
2008	5.11E+0	5.40E+0	6.68E+3	0.00E+0
2009	5.62E+0	5.58E+0	5.50E+3	0.00E+0
2010	5.23E+0	5.09E+0	3.83E+3	0.00E+0
2011	5.76E+0	6.22E+0	4.36E+3	0.00E+0
2012	6.66E+0	5.69E+0	8.08E+3	0.00E+0
2013	4.57E+0	3.60E+0	8.21E+3	0.00E+0
2014	4.27E+0	4.06E+0	5.44E+3	0.00E+0
2015	3.99E+0	4.28E+0	6.17E+3	0.00E+0
2016	4.03E+0	3.40E+0	5.68E+3	0.00E+0
2017	4.02E+0	4.05E+0	5.98E+3	0.00E+0
2018	5.12E+0 ⁽¹⁾	4.72E+0 ⁽¹⁾	7.46E+3	0.00E+0

0.00E+0 indicates no detectable measurements

(1) 1st quarter only; Analysis Discontinued (AR # 02240431)

3.4 GROUND WATER

Eighteen indicator ground water sample locations were sampled quarterly on site at HNP, there is no control location. In total, seventy-two ground water samples were analyzed for gamma emitters and tritium in 2018. The measured ground water gamma and tritium concentrations were below environmental requirements stated in the HNP ODCM.

No gamma emitting radionuclides attributable to plant operations were identified in 2018 ground water samples.

Tritium was detected in some ground water samples, ranging from 174 pCi/l to 1,160 pCi/l in 2018; however, the results are well below the EPA reportable drinking water limit (20,000 pCi/l) and non-drinking water limit (30,000 pCi/l). The ground water wells, located on site at HNP, are monitoring wells and are not a water supply for drinking or irrigation. Therefore, there is no radiological dose via this pathway.

K-40 and Be-7 are naturally occurring radionuclides that were observed in ground water samples in 2018.

3.5 MILK

A total of 31 milk samples were analyzed by gamma spectroscopy and low-level iodine during 2018. One indicator goat milk location was sampled from late spring to late fall and one control cow milk location was sampled the entire year.

There were no gamma emitting radionuclides attributable to plant operations identified in milk samples in 2018. Cs-137 was identified in one goat milk sample collected in October of 2018 (NCR # 02243290). An evaluation was conducted in 2018 (AR # 02243634) to determine if any further actions were warranted. The outcome of this study deemed that there is no risk to the public and the Cs-137 most likely is from past nuclear weapons testing. In the 1950s and 1960s, Cs-137 was released during bomb testing and fallout occurred over the Earth. Trees and vegetation grown in contaminated soil concentrated the Cs-137 into their leaves and wood. Plant leaves can be consumed by grazing animals, such as goats and cows, and the radioactivity transferred into the animals' milk. Broadleaf vegetation samples show that Cs-137 is naturally present in the environment in the area and likely influenced the positive result.

K-40 and Be-7 are naturally occurring radionuclides that were observed in milk samples in 2018.

3.6 BROADLEAF VEGETATION

In lieu of the monthly indicator milk samples, per HNP ODCM, indicator broadleaf vegetation samples were collected in both the SW and SSW sectors of HNP. Broadleaf sampling is conducted to simulate dose to an individual via the milk pathway for compliance purposes.

Gamma spectroscopy was performed on 18 broadleaf vegetation samples during 2018 during the growing season (May through October). Two indicator locations and one control location were sampled.

No gamma emitting radionuclides, other than naturally occurring, were reported in vegetation samples. However, it is not unusual for Cs-137 to be present in vegetation. It is a constituent of nuclear weapons test fallout and nuclear plant accidents and has been observed in samples from indicator and control locations in the past. Figure 3.6 and Table 3.6 shows the mean activity of Cs-137 at the indicator and control locations.

K-40 and Be-7 are naturally occurring radionuclides that were observed in broadleaf vegetation samples in 2018.

Figure 3.6

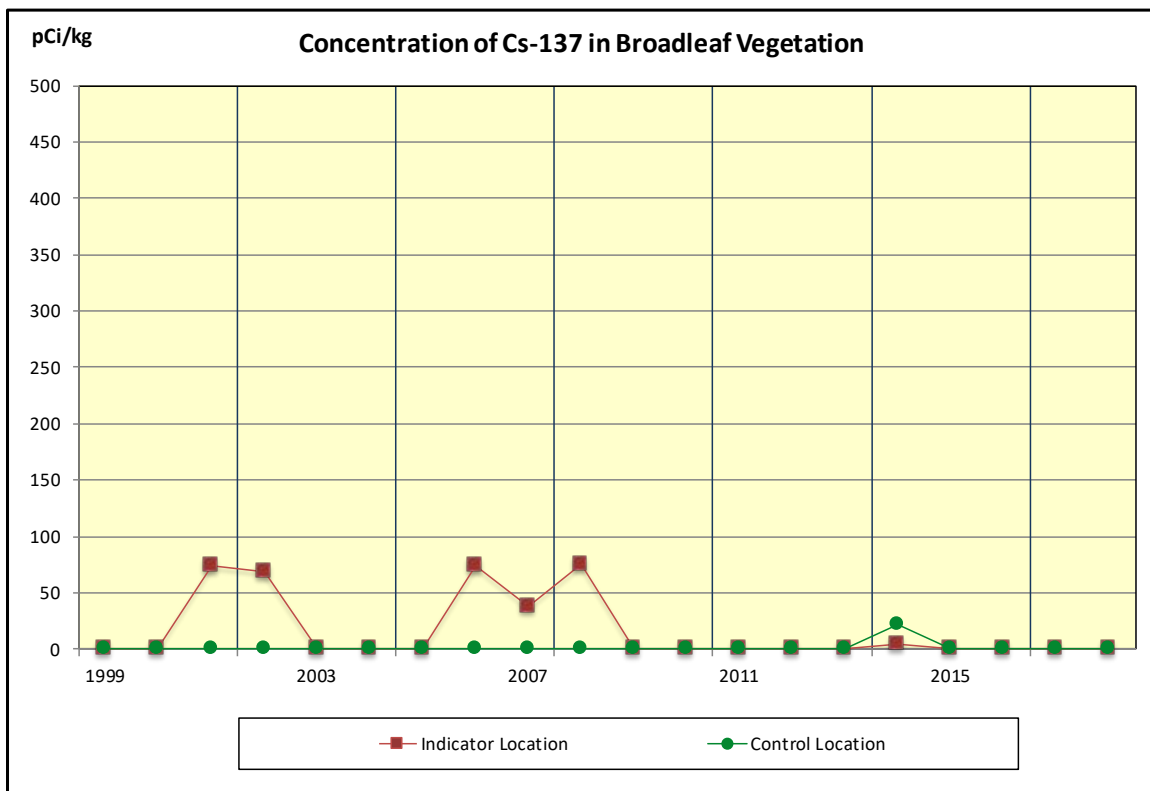


Table 3.6 Mean Concentration of Cs-137 in Broadleaf Vegetation

Year	Indicator Location (pCi/kg)	Control Location (pCi/kg)
1999	0.00E+0	0.00E+0
2000	0.00E+0	0.00E+0
2001	7.39E+1	0.00E+0
2002	6.86E+1	0.00E+0
2003	0.00E+0	0.00E+0
2004	0.00E+0	0.00E+0
2005	0.00E+0	0.00E+0
2006	7.35E+1	0.00E+0
2007	3.77E+1	0.00E+0
2008	6.23E+1	0.00E+0
2009	0.00E+0	0.00E+0
2010	0.00E+0	0.00E+0
2011	0.00E+0	0.00E+0
2012	0.00E+0	0.00E+0
2013	0.00E+0	0.00E+0
2014	4.77E+0	2.20E+1
2015	0.00E+0	0.00E+0
2016	0.00E+0	0.00E+0
2017	0.00E+0	0.00E+0
2018	0.00E+0	0.00E+0

3.7 FOOD PRODUCTS

The HNP Land Use Census (LUC) has never identified any gardens irrigated by water in which liquid plant wastes have been discharged; therefore, food product collection is not required. There is no indicator location for this media type and sampling at a control location is maintained for historical integrity.

During the 2018 growing season twenty-eight samples were collected and analyzed for gamma radionuclides. From January to August, the three different species of food products collected from the one location were analyzed individually for gamma emitters. In September, this was changed to a single mixed food product sample (AR # 02227572).

Gamma analyses of the food products detected no plant-related activity in any of the twenty-eight samples from control location #97 collected in 2018.

K-40 and Be-7 are naturally occurring radionuclides that were observed in food product samples in 2018.

3.8 AQUATIC VEGETATION

The 2018 data shows that there were three aquatic vegetation indicator samples and two control samples collected from Harris Lake, which are sampled annually. The aquatic vegetation samples (Lyngbya and Hydrilla) from Harris Lake are not consumed by humans, thus pose no radiological dose to the general public by the ingestion pathway.

Gamma analyses of the aquatic vegetation detected historical plant-related activity in the two indicator samples and the one control sample collected during 2018. Cs-137 activity was detected with a concentration of 8.31 pCi/kg at Location #41, which is 3.8 miles S of the plant (NCR # 02236885). An evaluation was conducted in 2018 (AR # 02243634) to determine if any further actions were warranted. The positive detection was caused by a change in the collection species. Historically, Hydrilla has been collected and analyzed for gamma emitters but due to Harris Lake Hydrilla control measures there was inadequate supply of this species so Lyngbya was collected. Lyngbya is a blue green alga mat that floats along the lake surface. The vegetation is not consumed by fish, so it tends to be long lived and less controlled. Since Harris Lake is the recipient of radioactive discharges, the Lyngbya may be accumulating Cs-137 from the water as it floats around the lake surface. Because of the free-floating nature of Lyngbya, the positive detection of Cs-137 should be anticipated and does not indicate an unusual accumulation of Cs-137 in the Harris Lake environment.

No long-term trends have been readily observed in these samples.

K-40 and Be-7 are naturally occurring radionuclides that were observed in aquatic vegetation samples in 2018.

3.9 FISH

Gamma spectroscopy was performed on 12 fish samples collected during 2018; four samples of bottom-feeding species (catfish) and eight samples of free-swimming species (sunfish and largemouth bass) from the indicator and control locations.

There were no gamma emitting radionuclides attributable to plant operations identified in any fish samples in 2018.

K-40 and Be-7 are naturally occurring radionuclides that were observed in fish samples collected during 2018.

3.10 SHORELINE SEDIMENT

Shoreline sediment samples were collected semiannually in 2018 from two indicator locations. There is no control location for this sample media type.

Gamma analyses of the four shoreline sediments detected natural activity in the samples collected during 2018. No long-term trends are readily observed in these samples.

K-40 and Be-7 are naturally occurring radionuclides that were observed in shoreline sediment samples collected during 2018.

3.11 BOTTOM SEDIMENT

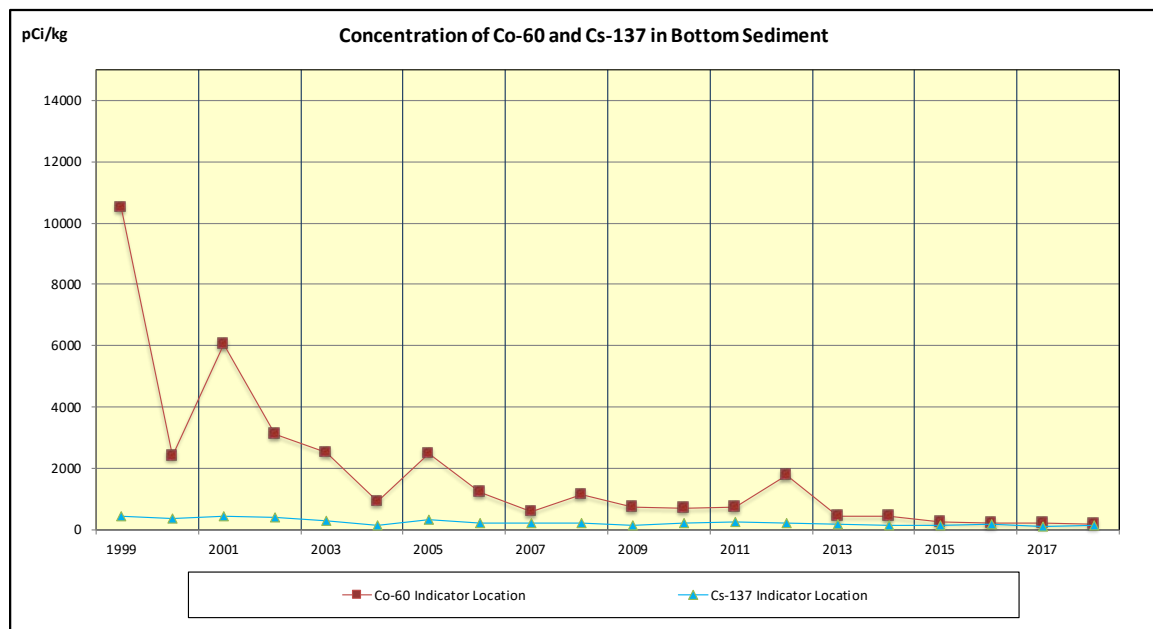
During 2018, a total of two bottom sediment samples were analyzed from the indicator location. There is no control location for bottom sediment.

The 2018 data indicated an annual average mean activity of 177 pCi/kg of Co-60, and 125 pCi/kg of Cs-137 activity in the indicator samples which are sampled semiannually. The bottom sediment sample from Harris Lake poses no radiological dose to the general public via this pathway due to the fact that it is not easily accessible (i.e. bottom sediment is approximately forty to sixty feet underwater). The positive detection most likely is from past nuclear weapons testing and historical plant discharges. These samples are for long-term trends for liquid effluent monitoring.

Figure 3.11 and Table 3.11 provide individual sample gamma results for the highest annual mean indicator location concentrations since 1999 for Co-60 and Cs-137.

Naturally occurring K-40 was observed in some bottom sediment samples collected during 2018.

Figure 3.11



There is no reporting level for Co-60 or Cs-137 in Bottom Sediment.

Table 3.11 Mean Concentration of Radionuclides in Bottom Sediment

YEAR	Control Location	Co-60 (pCi/kg) Indicator Location	Cs-137 (pCi/kg) Indicator Location
1999	No Control	1.05E+4	4.40E+2
2000	No Control	2.42E+3	3.69E+2
2001	No Control	6.03E+3	4.20E+2
2002	No Control	3.12E+3	3.91E+2
2003	No Control	2.52E+3	2.78E+2
2004	No Control	9.17E+2	1.52E+2
2005	No Control	2.49E+3	3.33E+2
2006	No Control	1.23E+3	2.11E+2
2007	No Control	5.92E+2	2.15E+2
2008	No Control	1.15E+3	1.99E+2
2009	No Control	7.50E+2	1.50E+2
2010	No Control	6.84E+2	2.23E+2
2011	No Control	7.30E+2	2.43E+2
2012	No Control	1.79E+3	2.19E+2
2013	No Control	4.20E+2	1.94E+2
2014 ⁽¹⁾	No Control	4.31E+2	1.26E+2
2015	No Control	2.66E+2	1.39E+2
2016	No Control	2.13E+2	1.85E+2
2017	No Control	2.14E+2	8.35E+1
2018	No Control	1.77E+2	1.25E+2

(1) 2014 Gamma spectroscopy system was replaced 10JUL2014. Gamma spectroscopy system hardware, detector cooling apparatus, software, electronics, nuclide identification libraries, and analytical test matrix components for test matrices were modified (NCR # 0739995). No analytical changes were observed due to the 2014 gamma spectroscopy system change.

3.12 DIRECT GAMMA RADIATION

3.12.1 ENVIRONMENTAL TLD

The Harris Updated Final Safety Analysis Report (UFSAR) Section 2.1.1.2 identifies that the minimum distance (± 25 ft.) and direction from the reactor to an exclusion area boundary is 6790 ft. ESE. This is the same boundary established for determining radioactive effluent release limits. No permanent public access is permitted within the exclusion area. Harris has forty-one routine monitoring stations. TLD locations designated as "inner ring" are located in each of the sixteen meteorological sectors in the general area of the Site Boundary. The inner ring TLDs are used as indicators. TLD locations designated as "outer ring" are outside the Site Boundary, located in each of the sixteen meteorological sectors, and are within 6 – 8 km from the site. All outer ring TLD locations are used as indicators. The balance of the stations are placed in locations such as population centers, nearby residences, or schools and are designated as "special interest" and one "control" location. These locations were chosen to reduce the probability of influence from Harris operation on data. The control locations are not used as background subtraction in the TLD analysis. Their purpose is to provide a comparison to indicator locations.

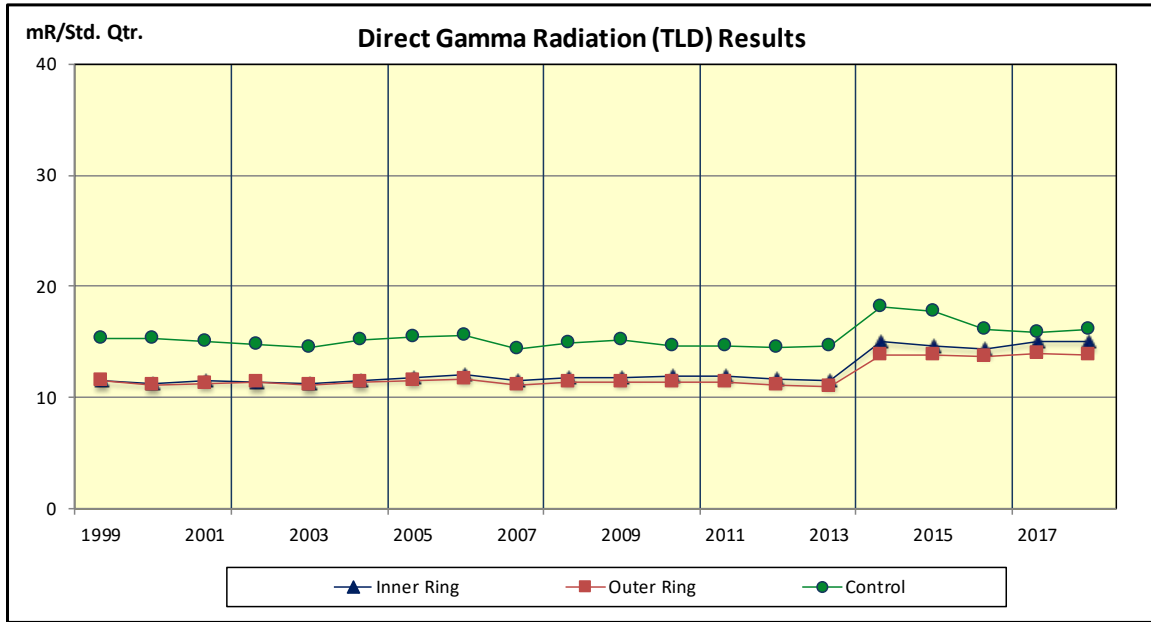
Thermoluminescent dosimeters (TLDs) were used to monitor ambient radiation exposures in the plant environs. In 2018, 161 TLDs were analyzed, 157 at indicator locations and 4 at the control location. TLDs are collected and analyzed quarterly. The TLD with the highest annual mean was 17.5 mR/Std Qtr. at indicator location #94, 2.0 miles NW of plant center.

Comparison of the average annual TLD exposure within the area of the Site Boundary (inner ring) of the plant with at a distance of 6 – 8 km (outer ring) and the "special interest" and control since 1999 is presented in Figure 3.12 and Table 3.12.

As of first quarter 2014, the environmental TLDs that are placed in the field for REMP are Harshaw TLDs. Panasonic TLDs were the type of environmental TLDs for REMP monitoring prior to 2014. This change was a merger initiative in order to achieve fleet standardization of the TLD program. This change in environmental TLDs for the REMP indicates a step change in activity as mentioned in NCR # 01982479 between the Panasonic TLD readings prior to 2014 and the Harshaw TLD readings from 2014 to present. There are three factors that can be attributed to the step increase that was observed: (1) the annealing method levels employed were lower for the Panasonic TLDs, (2) transit control subtraction differences, and (3) the calculation/method of fade correction (fixed fade control - vs - actual in field TLDs). Data accrual began in 2016 for enhanced analytical methods which will be evaluated for future implementation when sufficient data is available. The new methods will improve data transparency and interpretation.

A TLD intercomparison program is conducted as part of the quality assurance program. Results of this program are included in Section 4.7.

Figure 3.12



There is no reporting level for Direct Radiation (TLD).

Table 3.12 Direct Gamma Radiation (TLD) Results

Year	Inner Ring Average (mR/Std. Qtr.)	Outer Ring Average (mR/Std. Qtr.)	Control Average (mR/Std. Qtr.)
1999	1.15E+1	1.15E+1	1.53E+1
2000	1.13E+1	1.12E+1	1.54E+1
2001	1.15E+1	1.13E+1	1.50E+1
2002	1.14E+1	1.14E+1	1.48E+1
2003	1.13E+1	1.11E+1	1.45E+1
2004	1.16E+1	1.14E+1	1.52E+1
2005	1.18E+1	1.15E+1	1.55E+1
2006	1.21E+1	1.16E+1	1.55E+1
2007	1.15E+1	1.12E+1	1.43E+1
2008	1.18E+1	1.15E+1	1.49E+1
2009	1.18E+1	1.15E+1	1.51E+1
2010	1.19E+1	1.14E+1	1.47E+1
2011	1.19E+1	1.14E+1	1.47E+1
2012	1.17E+1	1.11E+1	1.46E+1
2013	1.15E+1	1.09E+1	1.47E+1
2014	1.50E+1	1.39E+1	1.82E+1
2015	1.46E+1	1.38E+1	1.78E+1
2016	1.44E+1	1.37E+1	1.61E+1
2017	1.50E+1	1.39E+1	1.59E+1
2018	1.50E+1	1.38E+1	1.61E+1

3.13 LAND USE CENSUS

The 2018 HNP Annual Land Use Census was conducted July 24 and 25, 2018, as required by the HNP ODCM 4.12.2. Table 3.13 summarizes the comparison between the 2017 and 2018 census results. A map indicating identified locations is shown in Figure 3.13.

During the 2018 census no irrigated gardens, no new meat animals nearer than existing gardens, or new milk locations were identified. The nearest residence is located in the NNW sector at 1.55 miles. No environmental program changes were required as a result of the 2018 land use census.

Table 3.13 Harris Land Use Census Comparison (2017 – 2018)

Nearest Pathway (Miles)

SECTOR	RESIDENCE		GARDEN		MEAT ANIMAL ⁽¹⁾		MILK ANIMAL	
	2017	2018	2017	2018	2017	2018	2017	2018
North	2.21	2.21	2.29	2.29	2.21	2.21	4.14 ⁽²⁾	4.14 ⁽²⁾
North-Northeast	1.81	1.81	1.81	1.81	---	---	---	---
Northeast	2.43	2.29*	2.92	2.92	---	---	---	---
East-Northeast	1.78	1.78	2.06	---*	2.01	2.01	---	---
East	1.88	1.88	2.16	2.16	---	---	---	---
East-Southeast	2.73	2.73	2.83	2.83	---	---	---	---
Southeast	4.11	4.11	4.11	4.11	4.11	---*	---	---
South-Southeast	4.26	4.26	4.26	4.26	---	---	---	---
South	---	---	---	---	---	---	---	---
South-Southwest	3.82	3.82	4.13	4.13	---	---	---	---
Southwest	2.76	2.76	---	---	---	---	---	---
West-Southwest	4.29	4.29	4.29	4.29	---	---	---	---
West	2.75	2.75	2.75	4.19*	---	---	2.82 ⁽³⁾	2.82 ⁽³⁾
West-Northwest	2.13	2.13	4.33	3.75*	---	---	---	---
Northwest	2.24	2.24	3.17	3.17	---	---	---	---
North-Northwest	1.55	1.55	1.82	1.82	1.82	1.82	---	---

Sector and distance determined by Global Positioning System.

* Represents a change from the previous year.

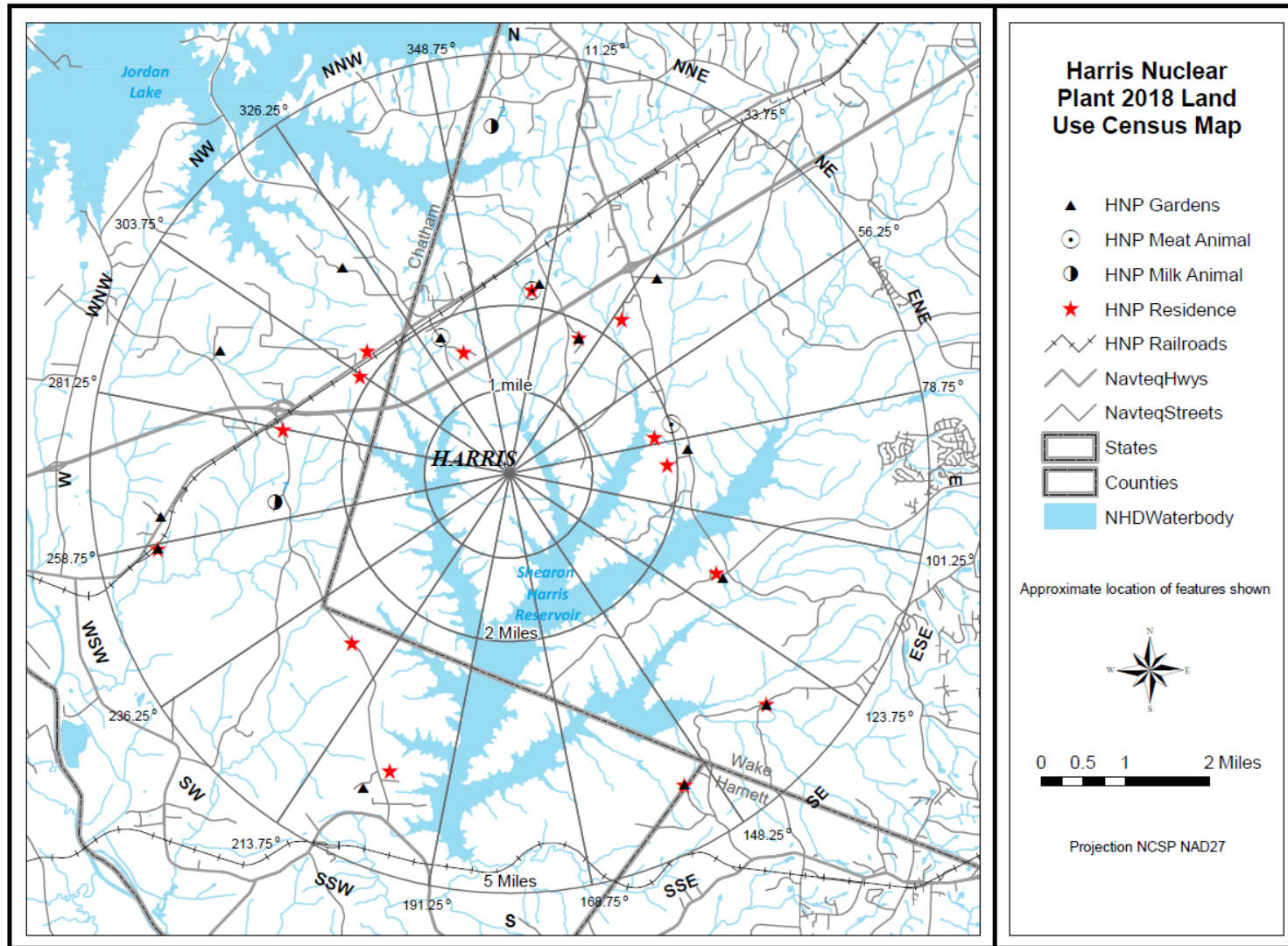
--- Indicates no occurrences within the 5 mile radius

(1) Meat animal was only identified at the nearest garden or closer in each sector. Poultry and egg laying animals were not classified as meat animals for the 2018 census.

(2) Goat Milk - Milk is used to feed goat kids, make a small quantity of cheese, and to make soap for personal use. Owner said they can now supply enough milk to participate in the HNP REMP. This dairy is not required due to HNP already having a dairy within 5 km (3.11 miles) and the dose being <1.0 mRem/year.

(3) Goat Milk - Milk is used to feed goat kids during the breeding months and the family consumes what is left. The milk that is not suitable for consumption is given to someone to make soap. This location participates in the REMP and milk is collected for 4 - 6 consecutive months per year (Late-Spring to Late-Fall months).

Figure 3.13



4.0 QUALITY ASSURANCE

4.1 SAMPLE COLLECTION

EnRad Laboratories and Environmental Services performed the environmental sample collections as specified by approved sample collection procedures.

4.2 SAMPLE ANALYSIS

EnRad Laboratories and General Engineering Laboratories (GEL), LLC performed the environmental sample analyses as specified by approved analysis procedures. EnRad Laboratories is located in Huntersville, North Carolina, at Duke Energy's Environmental Center. GEL is located in Charleston, South Carolina.

4.3 DOSIMETRY ANALYSIS

The Dosimetry and Records group performed the environmental dosimetry measurements as specified by approved dosimetry analysis procedures. The Dosimetry and Records Laboratory is located in Huntersville, North Carolina, at Duke Energy's Environmental Center.

4.4 LABORATORY EQUIPMENT QUALITY ASSURANCE

4.4.1 DAILY QUALITY CONTROL

EnRad Laboratories has an internal quality assurance program which monitors each type of instrumentation for reliability and accuracy. Daily quality control checks ensure that instruments are in proper working order and these checks are used to monitor instrument performance.

4.4.2 CALIBRATION VERIFICATION

National Institute of Standards and Technology (NIST) standards that represent counting geometries are analyzed as unknowns at various frequencies ranging from weekly to annually to verify that efficiency calibrations are valid. The frequency is dependent upon instrument use and performance. Investigations are performed and documented should calibration verification data fall outside of the acceptable limits.

4.4.3 BATCH PROCESSING

Method quality control samples are analyzed with sample analyses that are processed in batches. These include tritium analyses in drinking water, surface water, and ground water samples.

4.5 DUKE ENERGY INTERLABORATORY COMPARISON PROGRAM

In 2018 Duke Energy Environmental Laboratory (EnRad) participated in interlaboratory programs to satisfy Radiological Environmental Monitoring Program requirements in Duke Energy nuclear plant Offsite Dose Calculation Manuals and Selected Licensee Commitments Manuals, as applicable.

EnRad Laboratory participated in an interlaboratory program with Eckert & Ziegler Analytics (EZA) in 2018. EZA results were evaluated against the NRC Inspection Manual Procedure 84750 (IP 84750) acceptance criteria stated in EnRad Procedure 515, Cross Check Program Administration. All regulatory requirements continue to be met by the EZA Cross Check Program.

4.5.1 ECKERT & ZIEGLER ANALYTICS CROSS CHECK PROGRAM

EZA mixed gamma in liquid, mixed gamma in soil, low-level I-131 in liquid, mixed gamma air filter composites, I-131 air cartridges, strontium in water, gross alpha and beta in water, gross alpha and beta in filters, and tritium in water were analyzed at various times of the year at EnRad Laboratories. A summary of the applicable REMP EnRad Laboratory program results for 2018 is documented in Table 4.0-A.

Interlaboratory cross check samples from EZA were received and analyzed in three of the four quarters of 2018. Table 4.0-A lists the performance for specific samples. Forty-six nuclide results were reported to EZA of which forty-six (100 %) met the acceptance criteria based on IP 84750.

4.6 STATE OF NORTH CAROLINA INTERCOMPARISON PROGRAM

Harris Nuclear Power Plant routinely participates in an environmental sample intercomparison program. Program elements include sampling frequency and analysis parameters for surface water, ground water, cow milk, air particulate, air radioiodine, fish, bottom sediment, and shoreline sediment samples that have been collected. Samples are routinely split with the State of North Carolina for intercomparison analysis for Harris Nuclear Plant.

4.7 TLD INTERCOMPARISON PROGRAM

4.7.1 NUCLEAR TECHNOLOGY SERVICES INTERCOMPARISON PROGRAM

Radiation Dosimetry and Records participates in a quarterly TLD intercomparison program administered by Nuclear Technology Services, Inc. of Roswell, GA. Nuclear Technology Services irradiates environmental dosimeters quarterly and sends them to the Radiation Dosimetry and Records group for analysis of the unknown estimated delivered exposure. A summary of the 2018 Nuclear Technology Services Intercomparison Report is documented in Table 4.0-B.

The individual measurements were evaluated and results falling outside the acceptable ratio criteria had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors.

4.7.2 INTERNAL CROSS CHECK (DUKE ENERGY)

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimeters quarterly and submits them for analysis of the unknown estimated delivered exposure. A summary of the 2018 Internal Cross Check (Duke Energy) Program is documented in Table 4.0-B.

4.8 GENERAL ENGINEERING LABORATORY, LLC (GEL)

General Engineering Laboratory, LLC (GEL) participated in various Quality Assurance Programs for Inter-laboratory, Intra-laboratory, Third Party Cross Check programs, and a number of proficiency testing programs during 2018. A summary of the GEL quality assurance program results for the sample media types sent to GEL during 2018 is documented in Table 4.0-C. Table 4.0-C may not be applicable to all plants or stations.

TABLE 4.0-A

ECKERT & ZIEGLER ANALYTICS

CROSS CHECK PROGRAM

2018 Cross Check Results for EnRad Laboratories

Interlaboratory cross check samples from EZA were received and analyzed in three of the four quarters of 2018. Results are reported directly to Eckert & Ziegler Analytics. Environmental cross check samples were analyzed in replicate, and the result closest to the mean is reported to Eckert & Ziegler Analytics. The acceptance criteria for the program was based on the NRC Inspection Manual Procedure 84750 (IP 84750). Table 4.0-A lists the performance for specific samples. Forty-six nuclide results were reported to EZA of which forty-six (100 %) met the acceptance criteria based on IP 84750.

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Beta Filter in Planchet	E12096	Cs-137	1	pCi	212	207	1.02	Agreement
	E12180	Cs-137	2	pCi	202	210	0.96	Agreement
I-131 in Charcoal Cartridge	E12095	I-131	1	pCi	99.2	95.3	1.04	Agreement
	E12246	I-131	3	pCi	82.0	81.6	1.00	Agreement
Gamma in Composite Filter	E12094	Ce-141	1	pCi	83.8	82.0	1.02	Agreement
		Co-58	1	pCi	124	121	1.02	Agreement
		Co-60	1	pCi	197	199	0.99	Agreement
		Cr-51	1	pCi	349	347	1.01	Agreement
		Cs-134	1	pCi	180	191	0.94	Agreement
		Cs-137	1	pCi	192	183	1.05	Agreement
		Fe-59	1	pCi	160	148	1.08	Agreement
		Mn-54	1	pCi	138	140	0.99	Agreement
		Zn-65	1	pCi	283	260	1.09	Agreement
Gamma in Simulated Soil	E12249	Ce-141	3	pCi/g	0.217	0.221	0.98	Agreement
		Co-58	3	pCi/g	0.239	0.248	0.96	Agreement
		Co-60	3	pCi/g	0.317	0.328	0.97	Agreement
		Cr-51	3	pCi/g	0.407	0.457	0.89	Agreement
		Cs-134	3	pCi/g	0.207	0.212	0.98	Agreement
		Cs-137	3	pCi/g	0.311	0.330	0.94	Agreement
		Fe-59	3	pCi/g	0.196	0.206	0.95	Agreement
		Mn-54	3	pCi/g	0.309	0.289	1.07	Agreement
		Zn-65	3	pCi/g	0.362	0.347	1.04	Agreement

TABLE 4.0-A (Cont.)

Sample	Sample ID	Nuclide	Quarter	Units	EnRad Value	EZA Value	EnRad/EZA Ratio	Evaluation
Gamma in Water	E12250	Ce-141	3	pCi/L	146	137	1.07	Agreement
		Co-58	3	pCi/L	164	153	1.07	Agreement
		Co-60	3	pCi/L	215	202	1.06	Agreement
		Cr-51	3	pCi/L	307	282	1.09	Agreement
		Cs-134	3	pCi/L	127	131	0.97	Agreement
		Cs-137	3	pCi/L	169	157	1.07	Agreement
		Fe-59	3	pCi/L	138	127	1.08	Agreement
		I-131	3	pCi/L	64.7	62.5	1.04	Agreement
		Mn-54	3	pCi/L	193	178	1.08	Agreement
		Zn-65	3	pCi/L	240	214	1.12	Agreement
Gamma in Milk	E12097	Ce-141	1	pCi/L	79.4	77.0	1.03	Agreement
		Co-58	1	pCi/L	116	114	1.02	Agreement
		Co-60	1	pCi/L	192	187	1.03	Agreement
		Cr-51	1	pCi/L	335	326	1.03	Agreement
		Cs-134	1	pCi/L	174	180	0.97	Agreement
		Cs-137	1	pCi/L	183	172	1.06	Agreement
		Fe-59	1	pCi/L	151	139	1.09	Agreement
		Mn-54	1	pCi/L	141	131	1.07	Agreement
		Zn-65	1	pCi/L	266	244	1.09	Agreement
LLI-131 in Milk	E12097	I-131	1	pCi/L	101	108	0.93	Agreement
Gross Beta in Water	E12178	Cs-137	2	pCi/L	224	226	0.99	Agreement
	E12248	Cs-137	3	pCi/L	174	199	0.88	Agreement
Tritium in Water	E12179	H-3	2	pCi/L	11300	11000	1.02	Agreement
	E12247	H-3	3	pCi/L	13100	12900	1.00	Agreement

TABLE 4.0-B

2018 ENVIRONMENTAL DOSIMETER

CROSS-CHECK RESULTS

Nuclear Technology Services

Radiation Dosimetry and Records participates in a quarterly TLD intercomparison program administered by Nuclear Technology Services, Inc. of Roswell, GA. Nuclear Technology Services irradiates environmental dosimeters quarterly and sends them to Radiation Dosimetry and Records group for analysis of the unknown estimated delivered exposure. The individual measurements were evaluated and results falling outside the acceptable ratio criteria had an evaluation performed to identify any recommended remedial actions and to reduce anomalous errors.

1st Quarter 2018						2nd Quarter 2018					
TLD	Reported	Delivered	Bias	Pass/Fail		TLD	Reported	Delivered	Bias	Pass/Fail	
Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail	Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail
103109	84.34	76.32	10.51	<+/-15%	Pass	100476	57.72	60.80	-5.07	<+/-15%	Pass
103168	83.20	76.32	9.01	<+/-15%	Pass	101207	59.63	60.80	-1.92	<+/-15%	Pass
102842	79.60	76.32	4.30	<+/-15%	Pass	100628	58.40	60.80	-3.95	<+/-15%	Pass
102197	79.34	76.32	3.96	<+/-15%	Pass	100232	54.45	60.80	-10.44	<+/-15%	Pass
102240	79.98	76.32	4.80	<+/-15%	Pass	103236	58.36	60.80	-4.01	<+/-15%	Pass
Average Bias (B)			6.51			Average Bias (B)			-5.08		
Standard Deviation (S)			3.03			Standard Deviation (S)			3.21		
Measure Performance B +S			9.54	<15%	Pass	Measure Performance B +S			8.29	<15%	Pass
3rd Quarter 2018						4th Quarter 2018					
TLD	Reported	Delivered	Bias	Pass/Fail		TLD	Reported	Delivered	Bias	Pass/Fail	
Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail	Number	(mR)	(mR)	(% diff)	Criteria	Pass/Fail
102475	18.69	18.84	-0.80	<+/-15%	Pass	103532	67.52	61.93	9.03	<+/-15%	Pass
100674	18.66	18.84	-0.96	<+/-15%	Pass	102805	67.74	61.93	9.38	<+/-15%	Pass
100287	17.66	18.84	-6.96	<+/-15%	Pass	103209	66.84	61.93	7.93	<+/-15%	Pass
101172	18.23	18.84	-3.24	<+/-15%	Pass	103347	69.03	61.93	11.46	<+/-15%	Pass
101202	18.48	18.84	-1.91	<+/-15%	Pass	103399	67.21	61.93	8.53	<+/-15%	Pass
Average Bias (B)			-2.63			Average Bias (B)			9.27		
Standard Deviation (S)			2.25			Standard Deviation (S)			1.35		
Measure Performance B +S			4.88	<15%	Pass	Measure Performance B +S			10.61	<15%	Pass

TABLE 4.0-B (Cont.)

2018 ENVIRONMENTAL DOSIMETER

CROSS CHECK RESULTS

Internal Crosscheck (Duke Energy)

Radiation Dosimetry and Records participates in a quarterly TLD internal comparison program administered internally by the Dosimetry Lab. The Dosimetry Lab Staff irradiates environmental dosimetry quarterly and submits them for analysis of the unknown estimated delivered exposure.

1st Quarter 2018						2nd Quarter 2018					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
103932	34.28	37.26	-7.99	<+/-15%	Pass	103049	20.41	18.49	10.38	<+/-15%	Pass
103952	34.50	37.26	-7.40	<+/-15%	Pass	103360	21.06	18.49	13.90	<+/-15%	Pass
104007	34.95	37.26	-6.19	<+/-15%	Pass	100021	18.06	18.49	-2.33	<+/-15%	Pass
103961	35.30	37.26	-5.26	<+/-15%	Pass	102504	20.03	18.49	8.33	<+/-15%	Pass
103962	35.10	37.26	-5.79	<+/-15%	Pass	102466	19.51	18.49	5.52	<+/-15%	Pass
103931	35.54	37.26	-4.61	<+/-15%	Pass	100208	17.93	18.49	-3.03	<+/-15%	Pass
104011	35.22	37.26	-5.47	<+/-15%	Pass	101155	18.66	18.49	0.92	<+/-15%	Pass
103950	35.48	37.26	-4.77	<+/-15%	Pass	101145	17.93	18.49	-3.03	<+/-15%	Pass
103949	35.37	37.26	-5.07	<+/-15%	Pass	101272	18.00	18.49	-2.65	<+/-15%	Pass
103951	35.75	37.26	-4.05	<+/-15%	Pass	100515	17.87	18.49	-3.35	<+/-15%	Pass
Average Bias (B)			-5.66			Average Bias (B)			2.47		
Standard Deviation (S)			1.24			Standard Deviation (S)			6.52		
Measure Performance B +S			6.90	<15%	Pass	Measure Performance B +S			8.99	<15%	Pass
3rd Quarter 2018						4th Quarter 2018					
TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail	TLD Number	Reported (mR)	Delivered (mR)	Bias (% diff)	Pass/Fail Criteria	Pass/Fail
102886	44.09	40.0	10.23	<+/-15%	Pass	102089	46.94	45.0	4.31	<+/-15%	Pass
102730	44.27	40.0	10.68	<+/-15%	Pass	102442	45.03	45.0	0.07	<+/-15%	Pass
102248	41.02	40.0	2.55	<+/-15%	Pass	102336	47.40	45.0	5.33	<+/-15%	Pass
102867	42.58	40.0	6.45	<+/-15%	Pass	103721	48.89	45.0	8.64	<+/-15%	Pass
102464	40.91	40.0	2.27	<+/-15%	Pass	102738	48.54	45.0	7.87	<+/-15%	Pass
102752	43.09	40.0	7.73	<+/-15%	Pass	103194	47.94	45.0	6.53	<+/-15%	Pass
102803	43.80	40.0	9.50	<+/-15%	Pass	102931	47.59	45.0	5.76	<+/-15%	Pass
103531	43.17	40.0	7.93	<+/-15%	Pass	103742	49.22	45.0	9.38	<+/-15%	Pass
102880	44.04	40.0	10.10	<+/-15%	Pass	102029	47.14	45.0	4.76	<+/-15%	Pass
102415	42.26	40.0	5.65	<+/-15%	Pass	102290	46.10	45.0	2.44	<+/-15%	Pass
Average Bias (B)			7.31			Average Bias (B)			5.51		
Standard Deviation (S)			3.06			Standard Deviation (S)			2.84		
Measure Performance B +S			10.37	<15%	Pass	Measure Performance B +S			8.35	<15%	Pass

TABLE 4.0-C

2018 GEL Laboratories, LLC QA Results

Interlaboratory cross check samples from Eckert & Ziegler Analytics (EZA) and Proficiency Tests from the Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP) were received and analyzed by GEL in all four quarters of 2018 from EZA and in two quarters from MAPEP. Table 4.0-C lists the performance for specific samples. Table 4.0-C may not be applicable to all plants/stations.

Sample	Sample ID	Nuclide	Quarter	Units	GEL Value	Known Value	Acceptance Range/Ratio	Evaluation
Hard To Detect in Soil	MAPEP -18- MaS38	Fe-55	2	Bq/kg	67	N/A	False Pos Test	Agreement
		Ni-63	2	Bq/kg	1.05	N/A	False Pos Test	Agreement
		Sr-90	2	Bq/kg	-108	N/A	False Pos Test	Agreement
	MAPEP -18- MaS39	Fe-55	4	Bq/kg	434	512	358 - 666	Agreement
		Ni-63	4	Bq/kg	793	765	536 - 995	Agreement
		Sr-90	4	Bq/kg	162	193	135 - 251	Agreement
I-131 in Milk with EZA	E12173	I-131	1	pCi/L	105	108	0.97	Agreement
	E12173	I-131	2	pCi/L	78.9	71.9	1.10	Agreement
	E12242	I-131	3	pCi/L	71.8	58.2	1.23	Agreement
	E12348	I-131	4	pCi/L	95.8	93.3	1.03	Agreement
Gross Beta in Water	E12304 ⁽¹⁾	Cs-137	4	pCi/L	241	295	0.82	Agreement

⁽¹⁾ One set of December 2018 Gross Beta in water analyses were analyzed at GEL.

APPENDIX A

ENVIRONMENTAL SAMPLING

&

ANALYSIS PROCEDURES

2018

APPENDIX A

ENVIRONMENTAL SAMPLING AND ANALYSIS PROCEDURES

Adherence to established procedures for sampling and analysis of environmental media at Harris Nuclear Plant was required to ensure compliance with the Harris Nuclear Plant Offsite Dose Calculation Manual. Analytical procedures were employed to ensure that the ODCM detection capabilities were achieved.

Environmental sampling was performed by EnRad Laboratories and Environmental Services. Environmental analysis was performed by EnRad Laboratories, Dosimetry and Records, and General Engineering Laboratories, LLC (GEL).

This appendix describes the environmental sampling frequencies and analysis procedures by media type.

I. CHANGE OF SAMPLING PROCEDURES

Food product sample collection Procedure 750, Food Products Sampling at Harris Nuclear Plant, was changed to one mixed food product collection per site instead of three separate types of food product sample collections per site. This change was due to a lack of sufficient sample volume of each food product type. The food product sample collection change meets the HNP ODCM food products sampling requirements and is documented in AR # 02227572.

TLD #11 (SHNPP Site, S Sector, 0.6 mi. from site) was moved from the wet land area to GW-82 (SHNPP Site, S Sector, 0.6 mi. from site) due to safety concerns identified during the Nuclear General Office (NGO) Environmental thermoluminescent dosimeter (TLD) Documentation Project (AR # 02202715). Because neither the mileage nor sector changed during the TLD move, an ODCM update was not required.

Water sampling collection Procedure 748, Water Sampling at Harris Nuclear Plant, was changed to eliminate sample collection for gross beta analysis. Self-Assessment AR # 02240431 determined that the gross beta analysis was not required and the gross beta analysis was discontinued.

II. DESCRIPTION OF ANALYSIS PROCEDURES

Gamma spectroscopy analyses are performed using high purity germanium gamma detectors and Canberra analytical software. Designated sample volumes are transferred to appropriate counting geometries and analyzed by gamma spectroscopy. Perishable

samples such as fish, food products, aquatic vegetation, and broadleaf vegetation are ground to achieve a homogeneous mixture. Soils and sediments are dried, sifted to remove foreign objects (rocks, clams, glass, etc.), and then transferred to an appropriate counting geometry.

Low-level iodine analyses are performed by passing a designated sample aliquot through a pre-measured amount of ion exchange resin to remove and concentrate any iodine in the aqueous sample (milk). The resin is then dried, mixed thoroughly, and a net resin weight determined before being transferred to an appropriate counting geometry and analyzed by gamma spectroscopy.

Tritium analyses are performed by using low-level environmental liquid scintillation analysis technique on a Perkin-Elmer 4910TR liquid scintillation system or Perkin-Elmer 3100TR liquid scintillation system. Tritium samples are distilled and batch processed with a laboratory fortified blank, matrix spike, matrix spike duplicate, and blank to verify instrument performance and sample preparation technique are acceptable.

Gross beta analysis is performed by concentrating a designated aliquot of sample precipitate and analyzing by Tennelec XLB Series 5 gas-flow proportional counters. Samples are batch processed with a blank to ensure sample contamination has not occurred.

III. CHANGE OF ANALYSIS PROCEDURES

No analysis procedures were changed during 2018.

IV. SAMPLING AND ANALYSIS PROCEDURES

A.1 AIRBORNE PARTICULATE AND RADIOIODINE

Airborne particulate and radioiodine samples at each of nine locations were composited continuously by means of continuous air samplers. Air particulates were collected on a particulate filter and radioiodines were collected in a charcoal cartridge positioned behind the filter in the sampler. The samplers are designed to operate at a constant flow rate (in order to compensate for any filter loading) and are set to sample approximately 2 cubic feet per minute. Filters and cartridges were collected weekly. A separate weekly gamma analysis was performed on each charcoal cartridge. A weekly gross beta analysis was performed on each filter and then the filters, by location, were composited to produce quarterly filter samples for gamma analysis. The continuous composite samples were collected from the locations listed below.

Location 1 = 0.1 mi. S on SR 1134 from SR 1011 intersection. N sector,
2.6 mi. from site.

Location 2 = 1.4 mi. S on SR 1134 from SR 1011 intersection. NNE sector, 1.4 mi. from site.
Location 4 = 0.7 mi. N on SR 1127 from intersection with US 1. NNE sector, 3.1 mi. from site.
Location 5 = Pittsboro (Control Station), WNW sector, >12mi. from site.
Location 26 = Harris Lake Spillway, S sector, 4.7 mi. from site.
Location 47 = 1.3 mi. N on SR 1912 from intersection of NC 42, SSW sector, 3.4 mi. from site.
Location 63 = SHNPP site, SW sector, 0.6 mi. from site.
Location 90 = SHNPP site, SSW sector, 0.5 mi. from site.
Location 91 = HE&EC, Sewage Treatment Facility, ENE sector, 1.6 mi. from site.

A.2 DRINKING WATER

Bimonthly composite drinking water samples were collected from location 51, with aliquots going to monthly composite samples. A monthly composite drinking water sample was collected from the remaining drinking water locations. Gross beta, tritium, and gamma analyses were performed on the monthly composites. The composites are collected from the locations listed below.

Location 46 = NE Harnett Metro Water Treatment Plant Intake Building SSE sector, 17.2 mi. from site.
Location 51 = SHNPP Water Treatment Building (on Site)
Location 58 = Sanford Water Treatment Plant (Control Station), SW sector, 8.5 mi. from site.

A.3 SURFACE WATER

Bimonthly composite surface water samples were collected from location 26, with aliquots going to monthly composite samples. A monthly composite surface water sample was collected from the remaining surface water locations. Tritium and gamma analyses were performed on the monthly composites. The composites are collected from the locations listed below.

Location 26 = Harris Lake Spillway, S sector, 4.7 mi. from site.
Location 40 = NE Harnett Metro Water Treatment Plant Intake Building SSE sector, 17.2 mi. from site.
Location 43 = Sanford Water Treatment Plant (Control Station), SW sector, 8.5 mi. from site.

A.4 GROUND WATER

Grab samples were collected quarterly from ground water wells at eighteen locations. A gamma analysis and tritium analysis were performed on each sample. The samples were collected from the locations listed below.

- Location 57 = SHNPP Site (LP-13), N. side of Aux Res Intake canal, SSW sector, 0.4 mi. from site
- Location 59 = SHNPP Site (W-13), N. Side of Old Construction Road, NNE sector, 0.5 mi. from site.
- Location 60 = SHNPP Site (W-9A), W. bank of Harris Lake SE of Cooling Tower, ESE sector, 0.5 mi. from site.
- Location 68 = SHNPP Site (LP-6), N. of Old Steam Generator Building, W sector, 0.2 mi. from site.
- Location 69 = SHNPP Site (LP-7), S. side of Warehouse 9, NNE sector, 0.2 mi. from site.
- Location 70 = SHNPP Site (LP-9), N. side of Plant Entrance Road, E sector, 0.4 mi. from site.
- Location 71 = SHNPP Site (LP-16), S. of Switch Yard, SE sector, 0.3 mi from site.
- Location 72 = SHNPP Site (MWA-12), N. of Cooling Tower Makeup Water Intake Structures, SE sector, 0.2 mi. from site.
- Location 73 = SHNPP Site, N. of Emergency Service Water Screening Structure, S sector, 0.2 mi. from site.
- Location 74 = SHNPP Site, N. of helicopter landing pad, SSE sector, 0.2 mi. from site.
- Location 75 = SHNPP Site, W. of Security Building Entrance, ESE sector, 0.1 mi. from site.
- Location 77 = SHNPP Site (BD-MW1), Along the Cooling Tower Blowdown Line, S Sector, 0.4 mi. from site.
- Location 78 = SHNPP Site (BD-MW2), Along the Cooling Tower Blowdown Line, S Sector, 0.5 mi. from site.
- Location 79 = SHNPP Site (BD-MW3), Along the Cooling Tower Blowdown Line, S Sector, 0.5 mi. from site.
- Location 80 = SHNPP Site (BD-MW5), Along the Cooling Tower Blowdown Line, S Sector, 0.6 mi. from site.
- Location 81 = SHNPP Site (BD-MW7), Along the Cooling Tower Blowdown Line, S Sector, 0.6 mi. from site.
- Location 82 = SHNPP Site (BD-MW8), Along the Cooling Tower Blowdown Line, S Sector, 0.6 mi. from site.
- Location 83 = SHNPP Site (BD-MW16), Along the Cooling Tower Blowdown Line, SSW Sector, 1.6 mi. from site.

A.5 MILK

Monthly grab samples were collected at the control location January through May and November and December of 2018. Biweekly grab samples were collected from the control location and the indicator location mid-May through October of 2018. A gamma and low-level Iodine-131 analysis were performed on each sample. The grab samples were collected from the locations listed below.

Location 5 = Manco's Dairy, Pittsboro, (Control Station), WNW sector,
>12mi. from site.

Location 102 = Goat Farm, W sector, 2.82 mi. from site.

A.6 BROADLEAF VEGETATION

Monthly samples were collected when available during the growing season of May through October. A gamma analysis was performed on each sample. The samples were collected from the locations listed below.

Location 5 = Pittsboro (Control Station), NNW sector, >12 mi. from site.

Location 12 = SHNPP Site, SSW sector, 0.9 mi. from site.

Location 63 = SHNPP Site, SW sector, 0.6 mi. from site.

A.7 FOOD PRODUCTS

Monthly samples were collected when available during the growing season at one location. A gamma analysis was performed on each sample. The samples were collected from the location listed below.

Location 97 = Granite Springs Farm (Control Station), NW sector, 19.1
mi. from site.

A.8 AQUATIC VEGETATION

Annual samples were collected at each of the three locations. A gamma analysis was performed on each sample. The samples were collected from the locations listed below.

Location 26 = Harris Lake Spillway, S sector, 4.7 mi. from site.

Location 41 = Shoreline of Mixing Zone of Cooling Tower Blowdown
Line, S sector, 3.8 mi. from site.

Location 61 = Harris Lake East of New Hill – Holleman Rd (Control
Location), E sector, 2.5 mi. from site.

A.9 FISH

Semiannual samples of bottom feeders (catfish) and free swimmers (sunfish and largemouth bass) were collected at each of two locations. A gamma analysis was performed on the edible portions of each sample. The samples were collected from the locations listed below.

Location 44 = Site varies within the Harris Lake

Location 45 = Site varies above Buckhorn Dam on Cape Fear River
(Control Station)

A.10 SHORELINE SEDIMENT

Semiannual samples were collected at each of two locations. A gamma analysis was performed on each sample following the drying and removal of rocks and clams. The samples were collected from the locations listed below.

Location 26 = 4.6 miles S

Location 41 = 3.8 miles S

A.11 BOTTOM SEDIMENT

Semiannual samples were collected from the one location. A gamma analysis was performed on each sample following the drying and removal of rocks and clams. The samples were collected from the location listed below.

Location 52 = Harris Lake in the Vicinity of the Mixing Zone of the Cooling Tower, S sector, 3.8 mi. from site.

A.12 DIRECT GAMMA RADIATION (TLD)

Thermoluminescent dosimeters (TLD) were collected quarterly at forty-one locations. A gamma exposure rate was determined for each TLD. TLD locations are listed in Table 2.1-B. The TLDs were placed as indicated below.

- * An inner ring of 18 TLDs, one in each meteorological sector in the general area of the site boundary.
- * An outer ring of 16 TLDs, one in each meteorological sector in the 6 to 8 kilometer range.
- * The remaining TLDs were placed in special interest areas such as population centers, residential areas, schools, and at a control location.

A.13 ANNUAL LAND USE CENSUS

An Annual Land Use Census was conducted to identify within a distance of 8 kilometers (5.0 miles) from the plant, the nearest location from the site boundary in each of the sixteen meteorological sectors, the following:

- * The Nearest Residence
- * The Nearest Garden greater than 50 square meters or 500 square feet
- * The Nearest Milk-giving Animal (cow, goat, etc.)
- * The Nearest Meat Animal (beef, hogs, etc.) was only identified at the nearest garden or closer in each sector, and poultry and egg laying animals were not classified as meat animals for the 2018 census.

The census was conducted during the growing season from July 24 - 25, 2018. Results are shown in Table 3.12.3-1. No changes were made to the sampling procedures during 2018 as a result of the 2018 census.

V. GLOBAL POSITIONING SYSTEM (GPS) ANALYSIS

The Shearon Harris Nuclear Plant centerline used for GPS measurements was referenced from the Shearon Harris Nuclear Plant Updated Final Safety Analysis Report (UFSAR), section 2.1.1.1, Specification of Location. Waypoint coordinates used for HNP GPS measurements were latitude 35°-38'-00"N and longitude 78°-57'-22"W. Maps and tables were generated using North American Datum (NAD) 27. Data normally reflect accuracy to within 2 to 5 meters from point of measurement. All GPS field measurements were taken as close as possible to the item of interest. Distances for the locations are displayed using three significant figures.

APPENDIX B

**RADIOLOGICAL
ENVIRONMENTAL MONITORING
PROGRAM**

SUMMARY OF RESULTS

2018

HARRIS NUCLEAR PLANT RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Numbers: STN 50-400
Calendar Year: 2018

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	Location w/Highest Annual Mean ⁽²⁾		Control Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean ⁽²⁾⁽³⁾ Range ⁽²⁾		
Air Particulate (pCi/m ³)	Gross Beta 468 ⁽⁴⁾	See Table 2.2-C	1.90E-02 (416/416) 6.27E-03 – 3.12E-02	Loc. # 1 2.6 miles N	1.96E-02 (52/52) 8.50E-03 – 2.91E-02	Loc. # 5 1.89E-02 (52/52) 4.90E-03 – 2.98E-02	0
	Gamma 36	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Air Radioiodine (pCi/m ³)	I-131 468 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Drinking Water ⁽⁴⁾⁽⁸⁾ (pCi/l)	Gross Beta 39	4	3.45E+00 (26/26) 2.34E+00 – 5.15E+00	Loc. # 46 NE Harnett Metro Water Treatment Plant - Lillington 17.2 miles SSE	3.48E+00 (13/13) 2.34E+00 – 5.15E+00	Loc. # 58 3.68E+00 (13/13) 1.65E+00 – 6.57E+00	0
	Gamma 39	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium ⁽⁵⁾ 39	2000 ⁽⁷⁾	3.27E+03 (13/26) 2.40E+03 – 6.18E+03	Loc. # 51 Water Treatment Building on Site	3.27E+03 (13/13) 2.4E+03 – 6.18E+03	All less than LLD	0
Surface Water ⁽⁴⁾ (pCi/l)	Gross Beta 12 ⁽⁹⁾	4	4.77E+00 (8/8) 3.09E+00 – 6.67E+00	Loc. # 26 Harris Lake Spillway 4.7 miles S	5.12E+0 (4/4) 3.96E+00 – 6.67E+00	Loc. # 43 4.72E+00 (4/4) 3.70E+00 – 5.93E+00	0
	Gamma 39	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Tritium 39	2000 ⁽⁷⁾	7.46E+03 (13/26) 3.62E+03 – 1.28E+04	Loc. # 26 Harris Lake Spillway 4.7 miles S	7.46E+3 (13/13) 3.62E+03 – 1.28E+04	All less than LLD	0

HARRIS NUCLEAR PLANT

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY (cont.)

Shearon Harris Nuclear Power Plant
Wake County, North Carolina

Docket Numbers: STN 50-400
Calendar Year: 2018

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	Location w/Highest Annual Mean ⁽²⁾		Control Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean ⁽²⁾⁽³⁾ Range ⁽²⁾		
Ground Water (pCi/l)	Gamma 72	See Table 2.2-C	All less than LLD	-----	-----	No Control	0
	Tritium 72	2000 ⁽⁷⁾	4.84E+02 (21/72) 1.74E+02 – 1.16E+03	Loc. # 83 On Site (BD-MW16) along Cooling Tower Blowdown line 1.6 miles SSW	1.10E+03 (4/4) 1.05E+03 – 1.16E+03	No Control	0
Milk (pCi/l)	I-131 31	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
	Gamma 31 Cs-137 ⁽¹⁰⁾	See Table 2.2-C	5.89E+00 (1/12) 5.89E+00 – 5.89E+00	102 Goat Farm 2.82 miles W	5.89E+00 (1/12) 5.89E+00 – 5.89E+00	All less than LLD	0
Broadleaf Vegetation (pCi/kg, wet)	Gamma 18 ⁽⁴⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Food Products (pCi/kg, wet)	Gamma 28 ⁽⁴⁾⁽¹¹⁾	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0
Aquatic Vegetation (pCi/kg, wet)	Gamma 3 Cs-137 ⁽¹²⁾	See Table 2.2-C	8.31E+00 (1/2) 8.31E+00 – 8.31E+00	Loc. # 41 Shoreline of Mixing Zone of Cooling Tower Blowdown 3.8 miles S	8.31E+00 (1/1) 8.31E+00 – 8.31E+00	All less than LLD	0
Fish (pCi/kg, wet)	Gamma 12	See Table 2.2-C	All less than LLD	-----	-----	All less than LLD	0

HARRIS NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM DATA SUMMARY (cont.)

Shearon Harris Nuclear Plant
Wake County, North Carolina

Docket Numbers: STN 50-400
Calendar Year: 2018

Medium or Pathway Sampled or Measured (Unit of Measurement)	Type and Total No. of Measurements Performed	Lower Limit of Detection (LLD) ⁽¹⁾	All Indicator Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	Location w/Highest Annual Mean ⁽²⁾		Control Locations Mean ⁽²⁾⁽³⁾ Range ⁽²⁾	No. of Non-Routine Report Meas.
				Name, Distance, and Direction	Mean ⁽²⁾⁽³⁾ Range ⁽²⁾		
Sediments -- Shoreline (pCi/kg, dry)	Gamma 4	See Table 2.2-C	All less than LLD	-----	-----	No Control	0
Sediments -- Bottom (pCi/kg, dry)	Gamma 2 Co-60	See Table 2.2-C	1.77E+02 (2/2) 1.64E+02 – 1.90E+02	Loc. # 52 Harris Lake Cooling Tower Mixing Zone 3.8 miles S	1.77E+02 (2/2) 1.64E+02 – 1.90E+02	No Control	0
	Cs-137	See Table 2.2-C	1.25E+02 (2/2) 8.28E+01 – 1.67E+02	Loc. # 52 Harris Lake Cooling Tower Mixing Zone 3.8 miles S	1.25E+02 (2/2) 8.28E+01 – 1.67E+02	No Control	0
Direct Radiation (TLD) (mR per quarter) ⁽⁶⁾	TLD Readout 161 ⁽⁴⁾	-----	1.44E+01 (157/157) 9.94E+00 – 2.21E+01	Loc. # 94 Old US Hwy 1 2.0 miles NW	1.75E+01 (4/4) 1.58E+01 – 1.88E+01	Loc. # 5 1.61E+01 (4/4) 1.45E+01 – 1.77E+01	0

Footnotes to Appendix B

1. The Lower Limit of Detection (LLD) is the smallest concentration of radioactive material in a sample that will yield a net count above system background, which will be detected with 95 percent probability and with only 5 percent probability of falsely concluding that a blank observation represents a "real" signal. Due to counting statistics and varying volumes, occasionally lower LLDs are achieved. Refer to Section 2.3.2 for an explanation of how LLD values were derived.
2. Mean and range are based on detectable measurements only.
3. The fractions of all samples with detectable activities at specific locations are indicated in parentheses.
4. Missing samples or surveillances are discussed in Appendix C or Appendix D.
5. Although quarterly composite samples are required, monthly composite samples are used to provide more frequent and sensitive analyses.
6. TLD exposure is reported in milliroentgen (mR) per standard quarter (91 days).
7. Tritium Lower Limit of Detection (LLD) is approximately 2.00E+2 pCi/L for samples that typically demonstrate activity less than the LLD.
8. Drinking Water 51 (DW-51) has been included, as of 2009, in the Data Summary even though it does not meet the EPA (Environmental Protection Agency) definition of a public drinking water supply.
9. Gross Beta samples were only collected and analyzed at Surface Water locations during the 1st Quarter of 2018.
10. Cs-137 identified in Goat Milk sample collected 29OCT2018 (NCR # 02243290). Follow-up trend evaluation of Cs-137 in REMP samples at HNP documented in AR # 02243634.
11. Food Product sampling was evaluated (AR # 02227572) and changed to one Mixed Food Product sample rather than three separate Food Product samples. 10SEP2018 was the first Mixed Food Product sample.
12. Cs-137 identified in AQV sample (Lyngbya) collected 10OCT2018 documented in NCR # 02236885. Follow-up trend evaluation of Cs-137 in REMP samples at HNP documented in AR # 02243634.

APPENDIX C

SAMPLING DEVIATIONS

&

UNAVAILABLE ANALYSES

2018

APPENDIX C

HARRIS NUCLEAR PLANT SAMPLING DEVIATIONS & UNAVAILABLE ANALYSES

DEVIATION & UNAVAILABLE REASON CODES			
BF	Blown Fuse	PM	Preventive Maintenance
CN	Construction	PO	Power Outage
FZ	Sample Frozen	PS	Pump out of service / Undergoing repair
IV	Insufficient Volume	SL	Sample Loss/Lost due to Lab Accident
IW	Inclement Weather	SM	Motor / Rotor Seized
LC	Line Clog to Sampler	SU	Seasonally Unavailable
OT	Other	TF	Torn Filter
PI	Power Interrupt	VN	Vandalism

C.1 SAMPLING DEVIATIONS

Air Particulate and Air Radioiodine

REMP weekly air samples (Air Particulate (AP) or Air Radioiodine (AR)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” However, the sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The Harris REMP air samplers operated for a total of 99.5% availability in 2018.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
2	1/15 – 1/22/2018	PI	81.36 hours of downtime due to blown fuse and seized pump.	NCR # 02179183
5	1/15 – 1/22/2018	IW	1.16 hours of downtime due to power interruption from snow storm.	NCR # 02179186
47	1/15 – 1/22/2018	IW	23.63 hours of downtime due to power interruption from snow storm.	NCR # 02179187
47	1/22 – 1/29/2018	PI	2.23 hours of downtime due to unknown power interruption.	NCR # 02180764
26	1/22 – 1/29/2018	PI	2.22 hours of downtime due to unknown power interruption.	NCR # 02180766
1	2/26 – 3/5/2018	PI	3.71 hours of downtime due to power interruption from high winds.	NCR # 02189513
26	2/26 – 3/5/2018	PI	5.40 hours of downtime due to power interruption from high winds.	NCR # 02189514
47	2/26 – 3/5/2018	PI	7.97 hours of downtime due to power interruption from high winds.	NCR # 02189515
5	6/18 – 6/25/2018	PI	5.32 hours of downtime due to power interruption from thunderstorms.	NCR # 02215536
26	7/16 – 7/23/2018	PI	36.91 hours of downtime due to power interruption and tripped GFCI.	NCR # 02220888
5	7/23 – 7/30/2018	PI	1.62 hours of downtime due to power interruption from thunderstorms.	NCR # 02222112
26	7/23 – 7/30/2018	PI	4.68 hours of downtime due to power interruption from thunderstorms.	NCR # 02222115
1	9/10 – 9/17/2018	IW	2.41 hours of downtime due to power interruption from Hurricane Florence.	NCR # 02231527

4	9/10 – 9/17/2018	IW	2.29 hours of downtime due to power interruption from Hurricane Florence.	NCR # 02231530
5	9/10 – 9/17/2018	IW	7.40 hours of downtime due to power interruption from Hurricane Florence and tripped GFCI.	NCR # 02231538
26	9/10 – 9/17/2018	IW	39.05 hours of downtime due to power interruption from Hurricane Florence.	NCR # 02231540
1	10/8 – 10/15/2018	IW	29.53 hours of downtime due to power interruption from Hurricane Michael.	NCR # 02237487
4	10/8 – 10/15/2018	IW	20.82 hours of downtime due to power interruption from Hurricane Michael.	NCR # 02237497
5	10/8 – 10/15/2018	IW	0.25 hours of downtime due to power interruption from Hurricane Michael.	NCR # 02237499
26	10/8 – 10/15/2018	IW	87.67 hours of downtime due to power interruption from Hurricane Michael and tripped GFCI.	NCR # 02237492

Drinking Water and Surface Water

REMP monthly drinking water samples (Drinking Water (DW)) or surface water samples (Surface Water (SW)) that experience any downtime during a surveillance period are reported as a Deviation and classified as a “Sampling Deviation.” The sample is counted and the data reported, whereas a Deviation with no available sample is classified as an “Unavailable Analyses” and does not have any data reported. The Harris REMP water samplers operated for a total of 99.3% availability in 2018.

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
26	12/26/17 – 1/22/2018	FZ	103.7 hours of total downtime for monthly composite due to freezing of water sampler and sampler tubing. Grab Sample taken (NCR# 02176875 documents 12/26/18 – 1/8/19 collection with 96 hours of downtime).	NCR # 02179451
26	2/19 – 3/19/2018	OT	4.0 hours of downtime due to sampling program not stopping when programmed volume was input (see NCR # 02186244 for equipment malfunction details) during HNP requested maintenance.	NCR # 02193001
26	6/11 – 7/9/2018	PS	287.52 hours of downtime due to pump rotor jamming.	NCR # 02217791

C.2 UNAVAILABLE ANALYSES

TLDs

Location	Scheduled Collection Dates	Code	Description & Action to Prevent Recurrence	Corrective Action
3	1/10 – 4/11/2018	OT	TLD was found on the ground, not in its designated location - TLD not valid.	NCR # 02197915
33	7/11 – 10/10/2018	VN	TLD was found on the ground, appeared to be by human intervention, not in its designated location - TLD not valid.	NCR # 02236558
56	7/11 – 10/10/2018	CN	TLD was found on the ground, not in its designated location due to construction (tree removal) in the area - TLD not valid.	NCR # 02236559

APPENDIX D

ANALYTICAL DEVIATIONS

2018

APPENDIX D

HARRIS NUCLEAR PLANT

ANALYTICAL DEVIATIONS

No Analytical deviations were incurred for the 2018 HNP Radiological Environmental Monitoring Program.

APPENDIX E

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM RESULTS

2018

This appendix includes sample analysis report summaries and supportive data generated from each sample medium for 2018.

HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID:	465964	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.58E-02	3.60E-03	3.65E-03
Sample ID:	466164	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.93E-03	3.08E-03
Sample ID:	466362	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.86E-02	3.26E-03	2.78E-03
Sample ID:	466950	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.66E-03	3.08E-03
Sample ID:	467309	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.67E-03	3.05E-03
Sample ID:	467618	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.93E-03	3.06E-03
Sample ID:	468410	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	3.00E-03	3.37E-03
Sample ID:	468731	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.77E-03	3.57E-03
Sample ID:	469543	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	3.04E-03	3.42E-03
Sample ID:	470565	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	3.15E-03	3.16E-03
Sample ID:	471132	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	3.11E-03	3.00E-03
Sample ID:	471687	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.42E-03	2.52E-03
Sample ID:	472465	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.37E-02	2.70E-03	3.22E-03
Sample ID:	472474	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.44E-03	0.00E+00	1.44E-03
				Cs-137	<1.64E-03	0.00E+00	1.64E-03
				Be-7	1.77E-01	4.22E-02	3.83E-02
				K-40	<2.15E-02	0.00E+00	2.15E-02
Sample ID:	472949	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.81E-03	3.12E-03
Sample ID:	473240	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	2.72E-03	2.88E-03
Sample ID:	473605	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	2.83E-03	2.95E-03
Sample ID:	474125	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	2.86E-03	3.44E-03
Sample ID:	474503	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	3.20E-03	3.65E-03
Sample ID:	474862	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.43E-03	3.20E-03
Sample ID:	475186	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.05E-02	2.51E-03	3.16E-03
Sample ID:	475511	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.30E-02	2.58E-03	3.21E-03
Sample ID:	476336	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.89E-02	2.78E-03	2.73E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID:	477348	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.83E-02	3.47E-03	3.45E-03
Sample ID:	478078	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	3.12E-03	3.17E-03
Sample ID:	478398	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	3.03E-03	3.44E-03
Sample ID:	478749	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.85E-03	3.17E-03
Sample ID:	478758	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.23E-03	0.00E+00	1.23E-03
				Cs-137	<7.97E-04	0.00E+00	7.97E-04
				Be-7	1.81E-01	3.80E-02	2.24E-02
				K-40	<2.44E-02	0.00E+00	2.44E-02
Sample ID:	479030	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.80E-03	3.42E-03
Sample ID:	479851	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.54E-03	3.46E-03
Sample ID:	480221	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.02E-03	3.19E-03
Sample ID:	481048	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.69E-03	2.84E-03
Sample ID:	481492	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.08E-02	2.19E-03	2.65E-03
Sample ID:	481925	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.21E-03	3.32E-03
Sample ID:	482457	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	2.75E-03	2.63E-03
Sample ID:	482782	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	2.79E-03	2.79E-03
Sample ID:	483407	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.69E-03	2.81E-03
Sample ID:	483982	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	3.58E-03	4.01E-03
Sample ID:	484152	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	8.50E-03	2.27E-03	2.90E-03
Sample ID:	485003	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.23E-03	3.07E-03
Sample ID:	485233	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.78E-03	3.16E-03
Sample ID:	485457	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.60E-03	0.00E+00	1.60E-03
				Cs-137	<1.42E-03	0.00E+00	1.42E-03
				Be-7	1.76E-01	3.75E-02	2.25E-02
				K-40	<2.89E-02	0.00E+00	2.89E-02
Sample ID:	486124	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.91E-02	3.47E-03	3.13E-03
Sample ID:	486673	Sample Dates:	10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	3.22E-03	3.66E-03
Sample ID:	487712	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	3.27E-03	3.05E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID:	487959	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.49E-03	2.54E-03
Sample ID:	488444	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.73E-03	2.71E-03
Sample ID:	488820	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.95E-03	3.06E-03
Sample ID:	489124	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.79E-02	2.69E-03	2.97E-03
Sample ID:	489709	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	3.23E-03	2.97E-03
Sample ID:	490125	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.74E-03	3.13E-03
Sample ID:	490771	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	2.75E-03	2.53E-03
Sample ID:	491151	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	3.02E-03	3.13E-03
Sample ID:	491455	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.44E-03	2.40E-03
Sample ID:	491711	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.55E-02	3.89E-03	4.28E-03
Sample ID:	491720	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<3.67E-04	0.00E+00	3.67E-04
				Cs-137	<1.56E-03	0.00E+00	1.56E-03
				Be-7	1.42E-01	2.18E-02	2.30E-02
				K-40	<2.94E-02	0.00E+00	2.94E-02

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID:	465965	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.08E-02	3.84E-03	3.65E-03
Sample ID:	466165	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.84E-03	3.08E-03
Sample ID:	466363	Sample Dates:	1/15/2018 - 1/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	4.33E-03	5.22E-03
Sample ID:	466951	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.63E-03	3.09E-03
Sample ID:	467310	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.65E-03	3.05E-03
Sample ID:	467619	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.86E-03	3.06E-03
Sample ID:	468411	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.89E-03	3.36E-03
Sample ID:	468732	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	2.81E-03	3.58E-03
Sample ID:	469544	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.15E-03	3.35E-03
Sample ID:	470566	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.97E-03	3.16E-03
Sample ID:	471133	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.23E-03	2.99E-03
Sample ID:	471688	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.40E-03	2.53E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID:	472466	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.70E-03	3.22E-03
Sample ID:	472475	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.73E-03	0.00E+00	1.73E-03
				Cs-137	<1.66E-03	0.00E+00	1.66E-03
				Be-7	1.15E-01	3.74E-02	4.21E-02
				K-40	<2.84E-02	0.00E+00	2.84E-02
Sample ID:	472950	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.78E-03	3.12E-03
Sample ID:	473241	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.74E-03	2.88E-03
Sample ID:	473606	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	2.80E-03	2.96E-03
Sample ID:	474126	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.32E-02	2.76E-03	3.44E-03
Sample ID:	474504	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	3.40E-03	3.65E-03
Sample ID:	474863	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.51E-02	3.26E-03	3.19E-03
Sample ID:	475187	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.99E-03	2.49E-03	3.17E-03
Sample ID:	475512	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.11E-02	2.48E-03	3.21E-03
Sample ID:	476337	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.19E-02	2.40E-03	2.73E-03
Sample ID:	477349	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	3.34E-03	3.45E-03
Sample ID:	478079	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	3.23E-03	3.17E-03
Sample ID:	478399	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	3.26E-03	3.44E-03
Sample ID:	478750	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.02E-03	3.17E-03
Sample ID:	478759	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.17E-03	0.00E+00	2.17E-03
				Cs-137	<1.20E-03	0.00E+00	1.20E-03
				Be-7	1.62E-01	3.74E-02	2.80E-02
				K-40	2.04E-02	1.19E-02	4.62E-03
Sample ID:	479031	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.96E-03	3.42E-03
Sample ID:	479852	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.71E-02	3.47E-03	3.46E-03
Sample ID:	480222	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.92E-03	3.19E-03
Sample ID:	481049	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.67E-03	2.85E-03
Sample ID:	481493	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.09E-02	2.20E-03	2.65E-03
Sample ID:	481926	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.97E-03	3.33E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID:	482458	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	2.79E-03	2.63E-03
Sample ID:	482783	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.72E-03	2.79E-03
Sample ID:	483408	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.39E-02	2.45E-03	2.81E-03
Sample ID:	483983	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	3.48E-03	4.01E-03
Sample ID:	484153	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	6.27E-03	2.09E-03	2.86E-03
Sample ID:	485004	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	3.16E-03	3.07E-03
Sample ID:	485234	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.90E-03	3.15E-03
Sample ID:	485458	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.52E-03	0.00E+00	1.52E-03
				Cs-137	<1.25E-03	0.00E+00	1.25E-03
				Be-7	1.51E-01	3.69E-02	2.92E-02
				K-40	<3.49E-02	0.00E+00	3.49E-02
Sample ID:	486125	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.97E-02	3.50E-03	3.13E-03
Sample ID:	486674	Sample Dates:	10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.90E-03	3.02E-03
Sample ID:	487713	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.13E-03	3.05E-03
Sample ID:	487960	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.49E-03	2.53E-03
Sample ID:	488445	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	2.71E-03	2.71E-03
Sample ID:	488821	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.87E-03	3.06E-03
Sample ID:	489125	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.62E-03	2.97E-03
Sample ID:	489710	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.88E-02	3.33E-03	2.96E-03
Sample ID:	490126	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.81E-03	3.13E-03
Sample ID:	490772	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	2.71E-03	2.53E-03
Sample ID:	491152	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.95E-03	3.13E-03
Sample ID:	491456	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	2.23E-03	2.40E-03
Sample ID:	491712	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.47E-02	3.84E-03	4.28E-03
Sample ID:	491721	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.50E-03	0.00E+00	1.50E-03
				Cs-137	<3.09E-04	0.00E+00	3.09E-04
				Be-7	1.13E-01	3.49E-02	3.81E-02
				K-40	<2.72E-02	0.00E+00	2.72E-02

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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID:	465967	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.04E-02	3.80E-03	3.65E-03
Sample ID:	466167	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.50E-02	2.73E-03	3.08E-03
Sample ID:	466365	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.69E-02	3.20E-03	2.78E-03
Sample ID:	466953	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.58E-03	3.07E-03
Sample ID:	467312	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.72E-03	3.05E-03
Sample ID:	467621	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.87E-03	3.06E-03
Sample ID:	468413	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.99E-03	3.47E-03
Sample ID:	468734	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.45E-03	2.58E-03	3.48E-03
Sample ID:	469546	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.25E-02	3.18E-03	3.32E-03
Sample ID:	470568	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	2.93E-03	3.16E-03
Sample ID:	471135	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.00E-03	2.96E-03
Sample ID:	471690	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.37E-03	2.57E-03
Sample ID:	472468	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.73E-03	3.24E-03
Sample ID:	472477	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.63E-03	0.00E+00	1.63E-03
				Cs-137	<1.65E-03	0.00E+00	1.65E-03
				Be-7	1.64E-01	3.97E-02	3.39E-02
				K-40	1.06E-02	1.19E-02	1.84E-02
Sample ID:	472952	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	2.90E-03	3.11E-03
Sample ID:	473243	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.73E-03	2.86E-03
Sample ID:	473608	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.92E-02	2.77E-03	2.97E-03
Sample ID:	474128	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.67E-03	3.41E-03
Sample ID:	474506	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	3.27E-03	3.67E-03
Sample ID:	474865	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.67E-02	3.34E-03	3.20E-03
Sample ID:	475189	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.05E-02	2.51E-03	3.15E-03
Sample ID:	475514	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.10E-02	2.47E-03	3.21E-03
Sample ID:	476339	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.70E-03	2.73E-03

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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID:	477351	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.24E-03	3.45E-03
Sample ID:	478081	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.05E-03	3.17E-03
Sample ID:	478401	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.17E-03	3.44E-03
Sample ID:	478752	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.06E-03	3.20E-03
Sample ID:	478761	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.60E-03	0.00E+00	1.60E-03
				Cs-137	<1.01E-03	0.00E+00	1.01E-03
				Be-7	1.40E-01	3.63E-02	3.40E-02
				K-40	<2.34E-02	0.00E+00	2.34E-02
Sample ID:	479033	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.89E-03	3.39E-03
Sample ID:	479854	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.51E-02	3.40E-03	3.48E-03
Sample ID:	480224	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.98E-03	3.17E-03
Sample ID:	481051	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.76E-03	2.84E-03
Sample ID:	481495	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.10E-02	2.20E-03	2.66E-03
Sample ID:	481928	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.22E-03	3.32E-03
Sample ID:	482460	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	2.86E-03	2.63E-03
Sample ID:	482785	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.99E-02	2.72E-03	2.79E-03
Sample ID:	483410	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.62E-03	2.81E-03
Sample ID:	483985	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.54E-03	4.01E-03
Sample ID:	484155	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.34E-03	2.20E-03	2.90E-03
Sample ID:	485006	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.37E-03	3.09E-03
Sample ID:	485236	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.09E-03	3.29E-03
Sample ID:	485460	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.67E-03	0.00E+00	1.67E-03
				Cs-137	<1.23E-03	0.00E+00	1.23E-03
				Be-7	1.50E-01	3.86E-02	3.60E-02
				K-40	<2.25E-02	0.00E+00	2.25E-02
Sample ID:	486127	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.10E-02	3.45E-03	2.99E-03
Sample ID:	486676	Sample Dates:	10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	3.09E-03	3.43E-03
Sample ID:	487715	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.58E-02	3.30E-03	3.05E-03

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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID:	487962	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.51E-03	2.54E-03
Sample ID:	488447	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	2.64E-03	2.70E-03
Sample ID:	488823	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.89E-03	3.06E-03
Sample ID:	489127	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.68E-03	2.97E-03
Sample ID:	489712	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.27E-03	2.99E-03
Sample ID:	490128	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	2.97E-03	3.12E-03
Sample ID:	490774	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	2.74E-03	2.53E-03
Sample ID:	491154	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.17E-02	3.10E-03	3.13E-03
Sample ID:	491458	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	2.45E-03	2.40E-03
Sample ID:	491714	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.80E-02	4.00E-03	4.28E-03
Sample ID:	491723	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.63E-03	0.00E+00	1.63E-03
				Cs-137	<1.34E-03	0.00E+00	1.34E-03
				Be-7	1.19E-01	3.20E-02	2.71E-02
				K-40	<3.19E-02	0.00E+00	3.19E-02

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID:	465969	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.75E-02	3.67E-03	3.64E-03
Sample ID:	466169	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.81E-03	3.08E-03
Sample ID:	466367	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.23E-03	2.83E-03
Sample ID:	466955	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	2.56E-03	3.05E-03
Sample ID:	467314	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	2.73E-03	3.05E-03
Sample ID:	467623	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.81E-03	3.06E-03
Sample ID:	468415	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.91E-03	3.39E-03
Sample ID:	468736	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	2.79E-03	3.55E-03
Sample ID:	469548	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.15E-02	3.11E-03	3.28E-03
Sample ID:	470570	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.26E-03	3.22E-03
Sample ID:	471137	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.09E-03	3.02E-03
Sample ID:	471692	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	2.37E-03	2.50E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID:	472470	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.40E-02	2.72E-03	3.22E-03
Sample ID:	472479	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.61E-03	0.00E+00	1.61E-03
				Cs-137	<1.32E-03	0.00E+00	1.32E-03
				Be-7	1.64E-01	3.76E-02	1.49E-02
				K-40	<3.21E-02	0.00E+00	3.21E-02
Sample ID:	472954	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.01E-02	2.85E-03	3.12E-03
Sample ID:	473245	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	2.88E-03	2.91E-03
Sample ID:	473610	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.65E-03	2.90E-03
Sample ID:	474130	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.84E-03	3.46E-03
Sample ID:	474508	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.57E-02	3.49E-03	3.64E-03
Sample ID:	474867	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.27E-03	3.25E-03
Sample ID:	475191	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.46E-03	2.43E-03	3.13E-03
Sample ID:	475516	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.03E-02	2.44E-03	3.21E-03
Sample ID:	476341	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	2.58E-03	2.73E-03
Sample ID:	477353	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.25E-03	3.50E-03
Sample ID:	478083	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	3.26E-03	3.12E-03
Sample ID:	478403	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.40E-02	3.39E-03	3.55E-03
Sample ID:	478754	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.90E-02	2.97E-03	3.17E-03
Sample ID:	478763	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.15E-03	0.00E+00	2.15E-03
				Cs-137	<1.19E-03	0.00E+00	1.19E-03
				Be-7	1.69E-01	3.80E-02	2.73E-02
				K-40	<2.53E-02	0.00E+00	2.53E-02
Sample ID:	479035	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.92E-03	3.42E-03
Sample ID:	479856	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.39E-02	3.32E-03	3.46E-03
Sample ID:	480226	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	3.03E-03	3.18E-03
Sample ID:	481053	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	2.80E-03	2.87E-03
Sample ID:	481497	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.90E-03	2.14E-03	2.64E-03
Sample ID:	481930	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	3.08E-03	3.33E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID:	482462	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	2.83E-03	2.63E-03
Sample ID:	482787	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.68E-02	2.58E-03	2.78E-03
Sample ID:	483412	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	2.54E-03	2.82E-03
Sample ID:	483987	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.82E-02	3.42E-03	4.01E-03
Sample ID:	484157	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.90E-03	2.07E-03	2.99E-03
Sample ID:	485008	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	3.00E-03	3.08E-03
Sample ID:	485238	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.85E-03	3.20E-03
Sample ID:	485462	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.42E-03	0.00E+00	1.42E-03
				Cs-137	<1.17E-03	0.00E+00	1.17E-03
				Be-7	1.35E-01	3.32E-02	2.51E-02
				K-40	<3.06E-02	0.00E+00	3.06E-02
Sample ID:	486129	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.98E-02	3.47E-03	3.08E-03
Sample ID:	486678	Sample Dates:	10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.80E-03	3.04E-03
Sample ID:	487717	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.53E-02	3.27E-03	3.06E-03
Sample ID:	487964	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.49E-03	2.57E-03
Sample ID:	488449	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.59E-03	2.67E-03
Sample ID:	488825	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.80E-03	3.06E-03
Sample ID:	489129	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.66E-03	2.97E-03
Sample ID:	489714	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.61E-02	3.23E-03	2.99E-03
Sample ID:	490130	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.87E-02	2.79E-03	3.10E-03
Sample ID:	490776	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.51E-03	2.53E-03
Sample ID:	491156	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.22E-03	3.13E-03
Sample ID:	491460	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.30E-03	2.44E-03
Sample ID:	491716	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.64E-03	4.16E-03
Sample ID:	491725	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.59E-03	0.00E+00	1.59E-03
				Cs-137	<3.28E-04	0.00E+00	3.28E-04
				Be-7	1.25E-01	3.34E-02	2.62E-02
				K-40	<2.74E-02	0.00E+00	2.74E-02

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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	465966	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.92E-02	3.78E-03	3.68E-03
Sample ID:	466166	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.89E-03	3.04E-03
Sample ID:	466364	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.22E-03	2.81E-03
Sample ID:	466952	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	2.52E-03	3.09E-03
Sample ID:	467311	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.67E-03	3.06E-03
Sample ID:	467620	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.99E-03	3.05E-03
Sample ID:	468412	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.51E-02	2.85E-03	3.43E-03
Sample ID:	468733	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.07E-02	2.66E-03	3.50E-03
Sample ID:	469545	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	3.20E-03	3.37E-03
Sample ID:	470567	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.07E-03	3.24E-03
Sample ID:	471134	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.07E-03	3.02E-03
Sample ID:	471689	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.42E-03	2.51E-03
Sample ID:	472467	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.76E-03	3.24E-03
Sample ID:	472476	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.42E-03	0.00E+00	1.42E-03
				Cs-137	<1.16E-03	0.00E+00	1.16E-03
				Be-7	1.43E-01	3.85E-02	3.81E-02
				K-40	<2.58E-02	0.00E+00	2.58E-02
Sample ID:	472951	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	2.86E-03	3.11E-03
Sample ID:	473242	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.14E-02	2.81E-03	2.89E-03
Sample ID:	473607	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	2.87E-03	2.92E-03
Sample ID:	474127	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.35E-02	2.80E-03	3.48E-03
Sample ID:	474505	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.22E-02	3.27E-03	3.55E-03
Sample ID:	474864	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.63E-02	3.38E-03	3.28E-03
Sample ID:	475188	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.16E-02	2.57E-03	3.15E-03
Sample ID:	475513	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.27E-03	2.39E-03	3.23E-03
Sample ID:	476338	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.56E-03	2.60E-03



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	477350	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.23E-03	3.62E-03
Sample ID:	478080	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.14E-03	3.13E-03
Sample ID:	478400	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	3.06E-03	3.46E-03
Sample ID:	478751	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.75E-03	3.14E-03
Sample ID:	478760	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.39E-03	0.00E+00	1.39E-03
				Cs-137	<1.68E-03	0.00E+00	1.68E-03
				Be-7	1.25E-01	3.26E-02	2.77E-02
				K-40	<2.68E-02	0.00E+00	2.68E-02
Sample ID:	479032	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.49E-02	2.88E-03	3.47E-03
Sample ID:	479853	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.33E-03	3.42E-03
Sample ID:	480223	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	3.42E-03	4.10E-03
Sample ID:	481050	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.76E-03	2.90E-03
Sample ID:	481494	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.03E-02	2.17E-03	2.66E-03
Sample ID:	481927	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.94E-03	3.32E-03
Sample ID:	482459	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	2.77E-03	2.66E-03
Sample ID:	482784	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	2.59E-03	2.77E-03
Sample ID:	483409	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.45E-02	2.49E-03	2.84E-03
Sample ID:	483984	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.59E-03	3.92E-03
Sample ID:	484154	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	8.99E-03	2.81E-03	3.78E-03
Sample ID:	485005	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.16E-03	3.06E-03
Sample ID:	485235	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.79E-03	3.17E-03
Sample ID:	485459	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.33E-03	0.00E+00	2.33E-03
				Cs-137	<8.42E-04	0.00E+00	8.42E-04
				Be-7	1.33E-01	3.42E-02	2.73E-02
				K-40	<3.27E-02	0.00E+00	3.27E-02
Sample ID:	486126	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.95E-02	3.42E-03	3.05E-03
Sample ID:	486675	Sample Dates:	10/8/2018 - 10/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	4.82E-03	6.60E-03
Sample ID:	487714	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.73E-02	3.34E-03	3.02E-03



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	487961	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.46E-03	2.57E-03
Sample ID:	488446	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	2.64E-03	2.66E-03
Sample ID:	488822	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.78E-03	3.07E-03
Sample ID:	489126	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.62E-03	2.97E-03
Sample ID:	489711	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.46E-02	3.15E-03	2.98E-03
Sample ID:	490127	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.77E-03	3.12E-03
Sample ID:	490773	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	2.59E-03	2.53E-03
Sample ID:	491153	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.07E-03	3.13E-03
Sample ID:	491457	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.31E-03	2.43E-03
Sample ID:	491713	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.83E-02	3.46E-03	4.16E-03
Sample ID:	491722	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.02E-03	0.00E+00	1.02E-03
				Cs-137	<1.36E-03	0.00E+00	1.36E-03
				Be-7	1.11E-01	3.23E-02	3.11E-02
				K-40	<2.60E-02	0.00E+00	2.60E-02

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID:	465968	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	3.50E-03	3.68E-03
Sample ID:	466168	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.86E-03	3.04E-03
Sample ID:	466366	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.68E-02	3.53E-03	3.26E-03
Sample ID:	466954	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.67E-03	3.08E-03
Sample ID:	467313	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.58E-03	3.06E-03
Sample ID:	467622	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	2.90E-03	3.05E-03
Sample ID:	468414	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.42E-02	2.80E-03	3.43E-03
Sample ID:	468735	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.05E-02	2.65E-03	3.50E-03
Sample ID:	469547	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	3.08E-03	3.40E-03
Sample ID:	470569	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.10E-02	3.12E-03	3.26E-03
Sample ID:	471136	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.15E-03	3.02E-03
Sample ID:	471691	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.35E-03	2.51E-03



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID:	472469	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.32E-02	2.69E-03	3.24E-03
Sample ID:	472478	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.29E-03	0.00E+00	1.29E-03
				Cs-137	<1.22E-03	0.00E+00	1.22E-03
				Be-7	1.27E-01	3.62E-02	3.53E-02
				K-40	<2.73E-02	0.00E+00	2.73E-02
Sample ID:	472953	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.05E-02	2.87E-03	3.11E-03
Sample ID:	473244	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.72E-03	2.89E-03
Sample ID:	473609	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.27E-02	2.91E-03	2.93E-03
Sample ID:	474129	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.29E-02	2.76E-03	3.48E-03
Sample ID:	474507	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.30E-03	3.55E-03
Sample ID:	474866	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.78E-02	3.45E-03	3.28E-03
Sample ID:	475190	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.67E-03	2.45E-03	3.14E-03
Sample ID:	475515	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.04E-02	2.45E-03	3.23E-03
Sample ID:	476340	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.36E-02	2.42E-03	2.61E-03
Sample ID:	477352	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.26E-02	3.28E-03	3.54E-03
Sample ID:	478082	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.23E-02	3.20E-03	3.19E-03
Sample ID:	478402	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	3.24E-03	3.46E-03
Sample ID:	478753	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.91E-03	3.14E-03
Sample ID:	478762	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.25E-03	0.00E+00	2.25E-03
				Cs-137	<1.25E-03	0.00E+00	1.25E-03
				Be-7	1.17E-01	3.65E-02	4.06E-02
				K-40	1.54E-02	1.19E-02	1.41E-02
Sample ID:	479034	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.95E-03	3.47E-03
Sample ID:	479855	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.41E-03	3.42E-03
Sample ID:	480225	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.11E-03	3.20E-03
Sample ID:	481052	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.07E-02	2.77E-03	2.82E-03
Sample ID:	481496	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.15E-02	2.24E-03	2.66E-03
Sample ID:	481929	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.26E-03	3.31E-03

HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID:	482461	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	2.78E-03	2.66E-03
Sample ID:	482786	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.64E-02	2.55E-03	2.77E-03
Sample ID:	483411	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.58E-03	2.84E-03
Sample ID:	483986	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.79E-02	3.36E-03	3.92E-03
Sample ID:	484156	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.20E-03	2.32E-03	2.90E-03
Sample ID:	485007	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.70E-02	3.35E-03	3.06E-03
Sample ID:	485237	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.44E-02	2.70E-03	3.17E-03
Sample ID:	485461	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.21E-03	0.00E+00	2.21E-03
				Cs-137	<1.45E-03	0.00E+00	1.45E-03
				Be-7	1.60E-01	4.15E-02	4.03E-02
				K-40	<1.96E-02	0.00E+00	1.96E-02
Sample ID:	486128	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.12E-02	3.51E-03	3.05E-03
Sample ID:	486677	Sample Dates:	10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.53E-02	2.75E-03	3.09E-03
Sample ID:	487716	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.21E-03	3.04E-03
Sample ID:	487963	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.59E-02	2.43E-03	2.57E-03
Sample ID:	488448	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	2.71E-03	2.66E-03
Sample ID:	488824	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.86E-03	3.07E-03
Sample ID:	489128	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	2.58E-03	2.97E-03
Sample ID:	489713	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.15E-03	2.98E-03
Sample ID:	490129	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.75E-02	2.75E-03	3.12E-03
Sample ID:	490775	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.47E-03	2.53E-03
Sample ID:	491155	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.97E-03	3.13E-03
Sample ID:	491459	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.30E-03	2.43E-03
Sample ID:	491715	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.66E-03	4.17E-03
Sample ID:	491724	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.02E-03	0.00E+00	1.02E-03
				Cs-137	<1.71E-03	0.00E+00	1.71E-03
				Be-7	9.85E-02	3.08E-02	3.07E-02
				K-40	<2.42E-02	0.00E+00	2.42E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	465970	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.74E-02	3.68E-03	3.65E-03
Sample ID:	466170	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.78E-03	3.05E-03
Sample ID:	466368	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.95E-02	3.29E-03	2.76E-03
Sample ID:	466956	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.18E-02	2.48E-03	3.13E-03
Sample ID:	467315	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.52E-02	2.71E-03	3.04E-03
Sample ID:	467624	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.60E-02	2.78E-03	3.07E-03
Sample ID:	468416	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.54E-02	2.81E-03	3.34E-03
Sample ID:	468737	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.08E-02	2.73E-03	3.59E-03
Sample ID:	469549	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	3.05E-03	3.35E-03
Sample ID:	470571	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	3.05E-03	3.15E-03
Sample ID:	471138	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.48E-02	3.14E-03	2.96E-03
Sample ID:	471693	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.37E-03	2.56E-03
Sample ID:	472471	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.38E-02	2.71E-03	3.22E-03
Sample ID:	472480	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.24E-03	0.00E+00	1.24E-03
				Cs-137	<1.02E-03	0.00E+00	1.02E-03
				Be-7	1.38E-01	3.74E-02	3.64E-02
				K-40	1.16E-02	1.29E-02	2.00E-02
Sample ID:	472955	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.89E-03	3.12E-03
Sample ID:	473246	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.64E-03	2.84E-03
Sample ID:	473611	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.81E-02	2.75E-03	3.00E-03
Sample ID:	474131	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.16E-02	2.68E-03	3.44E-03
Sample ID:	474509	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.74E-02	3.12E-03	3.67E-03
Sample ID:	474868	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.29E-02	3.12E-03	3.14E-03
Sample ID:	475192	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.80E-03	2.50E-03	3.21E-03
Sample ID:	475517	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.81E-03	2.41E-03	3.21E-03
Sample ID:	476342	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.46E-02	2.55E-03	2.74E-03

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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	477354	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.33E-02	3.23E-03	3.40E-03
Sample ID:	478084	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.13E-03	3.20E-03
Sample ID:	478404	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.04E-02	3.15E-03	3.44E-03
Sample ID:	478755	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.92E-03	3.22E-03
Sample ID:	478764	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<3.76E-04	0.00E+00	3.76E-04
				Cs-137	<1.06E-03	0.00E+00	1.06E-03
				Be-7	1.74E-01	4.15E-02	3.69E-02
				K-40	1.54E-02	1.24E-02	1.60E-02
Sample ID:	479036	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.67E-03	3.36E-03
Sample ID:	479857	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.44E-02	3.35E-03	3.46E-03
Sample ID:	480227	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.76E-02	2.90E-03	3.19E-03
Sample ID:	481054	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	2.80E-03	2.84E-03
Sample ID:	481498	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	9.00E-03	2.15E-03	2.74E-03
Sample ID:	481931	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.01E-03	3.21E-03
Sample ID:	482463	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	2.80E-03	2.63E-03
Sample ID:	482788	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.65E-03	2.78E-03
Sample ID:	483413	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.60E-03	2.81E-03
Sample ID:	483988	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	3.60E-03	4.07E-03
Sample ID:	484158	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.65E-03	2.18E-03	2.83E-03
Sample ID:	485009	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.20E-02	3.13E-03	3.09E-03
Sample ID:	485239	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.58E-02	2.74E-03	3.10E-03
Sample ID:	485463	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.00E-03	0.00E+00	1.00E-03
				Cs-137	<1.20E-03	0.00E+00	1.20E-03
				Be-7	1.43E-01	3.70E-02	3.48E-02
				K-40	<3.81E-02	0.00E+00	3.81E-02
Sample ID:	486130	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.65E-02	3.39E-03	3.18E-03
Sample ID:	486679	Sample Dates:	10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E-02	2.76E-03	3.00E-03
Sample ID:	487718	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.34E-02	3.18E-03	3.06E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	487965	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	2.38E-03	2.51E-03
Sample ID:	488450	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.67E-03	2.73E-03
Sample ID:	488826	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.80E-03	3.06E-03
Sample ID:	489130	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.84E-02	2.72E-03	2.97E-03
Sample ID:	489715	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.14E-03	2.93E-03
Sample ID:	490131	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.78E-03	3.17E-03
Sample ID:	490777	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.49E-03	2.53E-03
Sample ID:	491157	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.94E-03	3.13E-03
Sample ID:	491461	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.33E-03	2.40E-03
Sample ID:	491717	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	3.61E-03	4.28E-03
Sample ID:	491726	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.59E-03	0.00E+00	1.59E-03
				Cs-137	<1.46E-03	0.00E+00	1.46E-03
				Be-7	1.02E-01	3.53E-02	4.09E-02
				K-40	<2.20E-02	0.00E+00	2.20E-02

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID:	465971	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.04E-02	3.81E-03	3.65E-03
Sample ID:	466171	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.95E-03	3.05E-03
Sample ID:	466369	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.24E-02	2.97E-03	2.76E-03
Sample ID:	466957	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.11E-02	2.44E-03	3.13E-03
Sample ID:	467316	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.14E-02	2.49E-03	3.04E-03
Sample ID:	467625	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.70E-02	2.83E-03	3.06E-03
Sample ID:	468417	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.41E-02	2.75E-03	3.34E-03
Sample ID:	468738	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.05E-02	2.70E-03	3.59E-03
Sample ID:	469550	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.98E-02	3.07E-03	3.35E-03
Sample ID:	470572	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.36E-02	3.18E-03	3.15E-03
Sample ID:	471139	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.14E-03	2.96E-03
Sample ID:	471694	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.42E-03	2.56E-03



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID:	472472	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.23E-02	2.62E-03	3.22E-03
Sample ID:	472481	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.67E-03	0.00E+00	1.67E-03
				Cs-137	<1.05E-03	0.00E+00	1.05E-03
				Be-7	1.76E-01	4.05E-02	3.11E-02
				K-40	<3.77E-02	0.00E+00	3.77E-02
Sample ID:	472956	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.08E-02	2.88E-03	3.12E-03
Sample ID:	473247	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	2.76E-03	2.84E-03
Sample ID:	473612	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.11E-02	2.89E-03	3.00E-03
Sample ID:	474132	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.25E-02	2.72E-03	3.44E-03
Sample ID:	474510	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.19E-02	3.33E-03	3.67E-03
Sample ID:	474869	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.19E-03	3.14E-03
Sample ID:	475193	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.08E-02	2.56E-03	3.21E-03
Sample ID:	475518	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.29E-02	2.56E-03	3.21E-03
Sample ID:	476343	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.67E-03	2.74E-03
Sample ID:	477355	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.75E-02	3.41E-03	3.40E-03
Sample ID:	478085	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.16E-02	3.17E-03	3.20E-03
Sample ID:	478405	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.35E-02	3.29E-03	3.44E-03
Sample ID:	478756	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.85E-03	3.22E-03
Sample ID:	478765	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.59E-03	0.00E+00	1.59E-03
				Cs-137	<1.71E-03	0.00E+00	1.71E-03
				Be-7	2.08E-01	4.23E-02	1.90E-02
				K-40	<3.04E-02	0.00E+00	3.04E-02
Sample ID:	479037	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.57E-02	2.86E-03	3.36E-03
Sample ID:	479858	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.79E-02	3.50E-03	3.46E-03
Sample ID:	480228	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	3.02E-03	3.19E-03
Sample ID:	481055	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.85E-02	2.68E-03	2.84E-03
Sample ID:	481499	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.08E-02	2.25E-03	2.74E-03
Sample ID:	481932	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.13E-02	3.08E-03	3.21E-03



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID:	482464	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.70E-03	2.63E-03
Sample ID:	482789	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.73E-02	2.60E-03	2.78E-03
Sample ID:	483414	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.62E-02	2.57E-03	2.81E-03
Sample ID:	483989	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.94E-02	3.53E-03	4.07E-03
Sample ID:	484159	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	8.02E-03	2.20E-03	2.83E-03
Sample ID:	485010	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.43E-02	3.24E-03	3.09E-03
Sample ID:	485240	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.80E-03	3.10E-03
Sample ID:	485464	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.41E-03	0.00E+00	2.41E-03
				Cs-137	<1.01E-03	0.00E+00	1.01E-03
				Be-7	1.38E-01	3.33E-02	2.37E-02
				K-40	<3.00E-02	0.00E+00	3.00E-02
Sample ID:	486131	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.92E-02	3.51E-03	3.18E-03
Sample ID:	486680	Sample Dates:	10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.77E-02	2.82E-03	3.00E-03
Sample ID:	487719	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.37E-02	3.20E-03	3.06E-03
Sample ID:	487966	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.43E-03	2.51E-03
Sample ID:	488451	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.71E-02	2.60E-03	2.73E-03
Sample ID:	488827	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	2.94E-03	3.06E-03
Sample ID:	489131	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.56E-02	2.58E-03	2.97E-03
Sample ID:	489716	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.56E-02	3.17E-03	2.93E-03
Sample ID:	490132	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.12E-02	2.93E-03	3.17E-03
Sample ID:	490778	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	2.63E-03	2.53E-03
Sample ID:	491158	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.90E-03	3.13E-03
Sample ID:	491462	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.30E-03	2.40E-03
Sample ID:	491718	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.30E-02	3.77E-03	4.28E-03
Sample ID:	491727	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.65E-03	0.00E+00	1.65E-03
				Cs-137	<1.35E-03	0.00E+00	1.35E-03
				Be-7	8.64E-02	3.54E-02	4.67E-02
				K-40	<2.98E-02	0.00E+00	2.98E-02



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID:	465972	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.41E-02	3.55E-03	3.70E-03
Sample ID:	466172	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.58E-02	2.75E-03	3.04E-03
Sample ID:	466370	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.82E-02	3.22E-03	2.72E-03
Sample ID:	466958	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.54E-03	3.15E-03
Sample ID:	467317	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.27E-02	2.58E-03	3.07E-03
Sample ID:	467626	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.55E-02	2.74E-03	3.05E-03
Sample ID:	468418	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.48E-02	2.76E-03	3.31E-03
Sample ID:	468739	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.20E-02	2.82E-03	3.63E-03
Sample ID:	469551	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.72E-02	2.91E-03	3.30E-03
Sample ID:	470573	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.18E-02	3.13E-03	3.21E-03
Sample ID:	471140	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.47E-02	3.12E-03	2.93E-03
Sample ID:	471695	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.47E-02	2.43E-03	2.58E-03
Sample ID:	472473	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.24E-02	2.64E-03	3.24E-03
Sample ID:	472482	Sample Dates:	1/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.41E-03	0.00E+00	1.41E-03
				Cs-137	<1.40E-03	0.00E+00	1.40E-03
				Be-7	1.62E-01	3.58E-02	1.70E-02
				K-40	<2.94E-02	0.00E+00	2.94E-02
Sample ID:	472957	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.86E-02	2.78E-03	3.11E-03
Sample ID:	473248	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.09E-02	2.73E-03	2.81E-03
Sample ID:	473613	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	2.81E-03	2.99E-03
Sample ID:	474133	Sample Dates:	4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.15E-02	2.71E-03	3.52E-03
Sample ID:	474511	Sample Dates:	4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.42E-02	3.39E-03	3.59E-03
Sample ID:	474870	Sample Dates:	5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.64E-02	3.30E-03	3.15E-03
Sample ID:	475194	Sample Dates:	5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.08E-02	2.57E-03	3.23E-03
Sample ID:	475519	Sample Dates:	5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.31E-02	2.59E-03	3.23E-03
Sample ID:	476344	Sample Dates:	5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.69E-02	2.65E-03	2.69E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID:	477356	Sample Dates:	6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.49E-02	3.30E-03	3.41E-03
Sample ID:	478086	Sample Dates:	6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.32E-02	3.26E-03	3.23E-03
Sample ID:	478406	Sample Dates:	6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.52E-02	3.38E-03	3.45E-03
Sample ID:	478757	Sample Dates:	6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	3.00E-03	3.14E-03
Sample ID:	478766	Sample Dates:	4/2/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<2.09E-03	0.00E+00	2.09E-03
				Cs-137	<1.16E-03	0.00E+00	1.16E-03
				Be-7	1.64E-01	3.77E-02	3.00E-02
				K-40	2.25E-02	1.33E-02	1.29E-02
Sample ID:	479038	Sample Dates:	7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.63E-02	2.93E-03	3.43E-03
Sample ID:	479859	Sample Dates:	7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.06E-02	3.61E-03	3.46E-03
Sample ID:	480229	Sample Dates:	7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.21E-02	3.12E-03	3.19E-03
Sample ID:	481056	Sample Dates:	7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.75E-03	2.83E-03
Sample ID:	481500	Sample Dates:	7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	8.69E-03	2.07E-03	2.64E-03
Sample ID:	481933	Sample Dates:	8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.95E-02	3.07E-03	3.34E-03
Sample ID:	482465	Sample Dates:	8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.02E-02	2.67E-03	2.65E-03
Sample ID:	482790	Sample Dates:	8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.00E-02	2.72E-03	2.78E-03
Sample ID:	483415	Sample Dates:	8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.55E-02	2.54E-03	2.81E-03
Sample ID:	483990	Sample Dates:	9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.97E-02	3.49E-03	3.98E-03
Sample ID:	484160	Sample Dates:	9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	7.83E-03	2.22E-03	2.89E-03
Sample ID:	485011	Sample Dates:	9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.28E-02	3.15E-03	3.05E-03
Sample ID:	485241	Sample Dates:	9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.61E-02	2.76E-03	3.11E-03
Sample ID:	485465	Sample Dates:	7/2/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.99E-03	0.00E+00	1.99E-03
				Cs-137	<1.39E-03	0.00E+00	1.39E-03
				Be-7	1.46E-01	3.89E-02	3.85E-02
				K-40	<3.02E-02	0.00E+00	3.02E-02
Sample ID:	486132	Sample Dates:	10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.01E-02	3.54E-03	3.17E-03
Sample ID:	486681	Sample Dates:	10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.78E-02	2.85E-03	3.05E-03
Sample ID:	487720	Sample Dates:	10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.45E-02	3.23E-03	3.04E-03



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Media Type: AIR PARTICULATE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID:	487967	Sample Dates:	10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.67E-02	2.43E-03	2.50E-03
Sample ID:	488452	Sample Dates:	10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.96E-02	2.74E-03	2.75E-03
Sample ID:	488828	Sample Dates:	11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.91E-02	2.93E-03	3.07E-03
Sample ID:	489132	Sample Dates:	11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.93E-02	2.76E-03	2.97E-03
Sample ID:	489717	Sample Dates:	11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.74E-02	3.23E-03	2.91E-03
Sample ID:	490133	Sample Dates:	11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.06E-02	2.94E-03	3.21E-03
Sample ID:	490779	Sample Dates:	12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.88E-02	2.62E-03	2.53E-03
Sample ID:	491159	Sample Dates:	12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.03E-02	3.01E-03	3.12E-03
Sample ID:	491463	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.66E-02	2.29E-03	2.38E-03
Sample ID:	491719	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	2.31E-02	3.80E-03	4.34E-03
Sample ID:	491728	Sample Dates:	10/1/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				Cs-134	<1.89E-03	0.00E+00	1.89E-03
				Cs-137	<1.73E-03	0.00E+00	1.73E-03
				Be-7	1.29E-01	3.34E-02	2.86E-02
				K-40	<3.25E-02	0.00E+00	3.25E-02

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID:	465973	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.38E-02	0.00E+00	2.38E-02
				Cs-134	<1.84E-02	0.00E+00	1.84E-02
				Cs-137	<2.26E-02	0.00E+00	2.26E-02
				Be-7	<1.34E-01	0.00E+00	1.34E-01
				K-40	5.26E-01	2.26E-01	2.62E-01
Sample ID:	466173	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.55E-02	0.00E+00	2.55E-02
				Cs-134	<1.69E-02	0.00E+00	1.69E-02
				Cs-137	<1.72E-02	0.00E+00	1.72E-02
				Be-7	<1.27E-01	0.00E+00	1.27E-01
				K-40	5.25E-01	2.00E-01	2.08E-01
Sample ID:	466371	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.44E-02	0.00E+00	2.44E-02
				Cs-134	<1.93E-02	0.00E+00	1.93E-02
				Cs-137	<1.87E-02	0.00E+00	1.87E-02
				Be-7	<9.96E-02	0.00E+00	9.96E-02
				K-40	<3.53E-01	0.00E+00	3.53E-01
Sample ID:	466959	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.78E-02	0.00E+00	1.78E-02
				Cs-134	<1.39E-02	0.00E+00	1.39E-02
				Cs-137	<1.84E-02	0.00E+00	1.84E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	5.54E-01	1.99E-01	1.88E-01
Sample ID:	467318	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.39E-02	0.00E+00	2.39E-02
				Cs-134	<1.50E-02	0.00E+00	1.50E-02
				Cs-137	<1.62E-02	0.00E+00	1.62E-02



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Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID: 467318	Sample Dates: 1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	4.36E-01	1.73E-01	1.69E-01
Sample ID: 467627	Sample Dates: 2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	4.39E-01	1.79E-01	1.83E-01
Sample ID: 468419	Sample Dates: 2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	4.66E-01	1.75E-01	1.63E-01
Sample ID: 468740	Sample Dates: 2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	4.62E-01	1.76E-01	1.54E-01
Sample ID: 469552	Sample Dates: 2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	7.29E-01	2.18E-01	1.62E-01
Sample ID: 470574	Sample Dates: 3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	5.41E-01	1.90E-01	1.67E-01
Sample ID: 471141	Sample Dates: 3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	3.94E-01	1.76E-01	2.01E-01
Sample ID: 471696	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<1.97E-02	0.00E+00	1.97E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	5.02E-01	2.02E-01	2.23E-01
Sample ID: 472483	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	5.40E-01	1.85E-01	1.53E-01
Sample ID: 472958	Sample Dates: 4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	4.52E-01	2.21E-01	2.92E-01
Sample ID: 473249	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02



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Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID: 473249	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	4.90E-01	1.73E-01	1.36E-01
Sample ID: 473614	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<2.15E-02	0.00E+00	2.15E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
Sample ID: 474134	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
Sample ID: 474512	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
Sample ID: 474871	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
Sample ID: 475195	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
Sample ID: 475520	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
Sample ID: 476345	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.61E-01	0.00E+00	1.61E-01
Sample ID: 477357	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
Sample ID: 478087	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 478087	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		K-40	5.14E-01	2.15E-01	2.53E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID: 478407	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.24E-02	0.00E+00	1.24E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	5.32E-01	2.20E-01	2.64E-01
Sample ID: 478767	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.26E-01	1.98E-01	2.44E-01
Sample ID: 479039	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.73E-02	0.00E+00	1.73E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	5.67E-01	2.27E-01	2.74E-01
Sample ID: 479860	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	<4.20E-01	0.00E+00	4.20E-01
Sample ID: 480230	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	5.84E-01	2.00E-01	1.85E-01
Sample ID: 481057	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.59E-01	1.80E-01	1.74E-01
Sample ID: 481501	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	4.53E-01	1.78E-01	1.80E-01
Sample ID: 481934	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	5.52E-01	2.00E-01	1.92E-01
Sample ID: 482466	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.64E-02	0.00E+00	1.64E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	2.92E-01	1.39E-01	1.33E-01
Sample ID: 482791	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.43E-02	0.00E+00	1.43E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<7.62E-02	0.00E+00	7.62E-02
		K-40	1.39E-01	1.23E-01	1.83E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID: 483416	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.79E-02	0.00E+00	1.79E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<9.63E-02	0.00E+00	9.63E-02
		K-40	5.51E-01	1.84E-01	1.76E-01
Sample ID: 483991	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	7.99E-01	2.47E-01	1.84E-01
Sample ID: 484161	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.41E-02	0.00E+00	3.41E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	3.55E-01	1.58E-01	1.61E-01
Sample ID: 485012	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.60E-01	1.80E-01	1.75E-01
Sample ID: 485242	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.19E-02	0.00E+00	1.19E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	5.39E-01	1.77E-01	1.18E-01
Sample ID: 486136	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	5.95E-01	1.98E-01	1.56E-01
Sample ID: 486682	Sample Dates: 10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	5.69E-01	2.31E-01	2.54E-01
Sample ID: 487721	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	6.73E-01	1.94E-01	3.51E-02
Sample ID: 487968	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	5.93E-01	1.92E-01	1.49E-01
Sample ID: 488453	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	4.34E-01	1.84E-01	1.98E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 1 [INDICATOR - N @ 2.6 miles]

Sample ID: 488829	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	3.62E-01	1.72E-01	2.01E-01
Sample ID: 489133	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.66E-02	0.00E+00	1.66E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	4.87E-01	1.89E-01	1.93E-01
Sample ID: 489718	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.88E-01	1.83E-01	1.77E-01
Sample ID: 490134	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	5.13E-01	2.00E-01	2.14E-01
Sample ID: 490780	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.79E-01	1.63E-01	1.30E-01
Sample ID: 491160	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	2.66E-01	1.69E-01	2.31E-01
Sample ID: 491464	Sample Dates: 12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.43E-02	0.00E+00	3.43E-02
		Cs-134	<1.15E-02	0.00E+00	1.15E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<9.69E-02	0.00E+00	9.69E-02
		K-40	<2.78E-01	0.00E+00	2.78E-01
Sample ID: 491729	Sample Dates: 12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.80E-02	0.00E+00	4.80E-02
		Cs-134	<2.25E-02	0.00E+00	2.25E-02
		Cs-137	<2.35E-02	0.00E+00	2.35E-02
		Be-7	<2.24E-01	0.00E+00	2.24E-01
		K-40	1.08E+00	2.99E-01	5.14E-02

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 465974	Sample Dates: 1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	5.32E-01	2.33E-01	2.80E-01
Sample ID: 466174	Sample Dates: 1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.53E-02	0.00E+00	2.53E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<2.07E-02	0.00E+00	2.07E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 466174	Sample Dates: 1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	4.62E-01	2.09E-01	2.59E-01
Sample ID: 466372	Sample Dates: 1/15/2018 - 1/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.88E-02	0.00E+00	4.88E-02
		Cs-134	<3.95E-02	0.00E+00	3.95E-02
		Cs-137	<3.28E-02	0.00E+00	3.28E-02
		Be-7	<2.45E-01	0.00E+00	2.45E-01
		K-40	<7.82E-01	0.00E+00	7.82E-01
Sample ID: 466960	Sample Dates: 1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.59E-01	1.88E-01	1.98E-01
Sample ID: 467319	Sample Dates: 1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.96E-01	2.30E-01	3.02E-01
Sample ID: 467628	Sample Dates: 2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	5.39E-01	1.89E-01	1.63E-01
Sample ID: 468420	Sample Dates: 2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	4.33E-01	1.93E-01	2.34E-01
Sample ID: 468741	Sample Dates: 2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	5.09E-01	2.22E-01	2.73E-01
Sample ID: 469553	Sample Dates: 2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	5.61E-01	2.00E-01	1.92E-01
Sample ID: 470575	Sample Dates: 3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	5.99E-01	1.81E-01	3.46E-02
Sample ID: 471142	Sample Dates: 3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	4.39E-01	1.77E-01	1.84E-01
Sample ID: 471697	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 471697	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.33E-01	2.18E-01	2.89E-01
Sample ID: 472484	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
Sample ID: 472959	Sample Dates: 4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
Sample ID: 473250	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
Sample ID: 473615	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		K-40	3.59E-01	1.79E-01	2.23E-01
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
Sample ID: 474135	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	5.55E-01	1.88E-01	1.43E-01
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
Sample ID: 474513	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<9.75E-02	0.00E+00	9.75E-02
		K-40	4.41E-01	1.97E-01	2.38E-01
		I-131	<2.45E-02	0.00E+00	2.45E-02
Sample ID: 474872	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.50E-01	1.93E-01	1.70E-01
Sample ID: 475196	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.31E-02	0.00E+00	1.31E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
Sample ID: 475521	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		K-40	4.36E-01	1.95E-01	2.36E-01
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
Sample ID: 475196	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.73E-01	1.77E-01	1.51E-01
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
Sample ID: 475521	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	4.51E-01	1.68E-01	1.66E-01
		I-131	<1.97E-02	0.00E+00	1.97E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 476346	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<2.17E-02	0.00E+00	2.17E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.65E-01	0.00E+00	1.65E-01
		K-40	6.45E-01	2.32E-01	2.24E-01
Sample ID: 477358	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	5.55E-01	2.05E-01	2.15E-01
Sample ID: 478088	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	5.56E-01	1.88E-01	1.42E-01
Sample ID: 478408	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	5.88E-01	2.23E-01	2.53E-01
Sample ID: 478768	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	<3.80E-01	0.00E+00	3.80E-01
Sample ID: 479040	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.73E-02	0.00E+00	1.73E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	5.91E-01	1.87E-01	1.26E-01
Sample ID: 479861	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	<4.04E-01	0.00E+00	4.04E-01
Sample ID: 480231	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	3.94E-01	1.91E-01	2.40E-01
Sample ID: 481058	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.56E-02	0.00E+00	2.56E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	3.73E-01	1.95E-01	2.54E-01
Sample ID: 481502	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	6.19E-01	2.05E-01	1.86E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 481935	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	3.87E-01	1.69E-01	1.76E-01
Sample ID: 482467	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.44E-02	0.00E+00	1.44E-02
		Cs-134	<8.53E-03	0.00E+00	8.53E-03
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	3.60E-01	1.56E-01	1.63E-01
Sample ID: 482792	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<9.72E-02	0.00E+00	9.72E-02
		K-40	3.78E-01	1.77E-01	2.11E-01
Sample ID: 483417	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<9.65E-03	0.00E+00	9.65E-03
		Be-7	<1.42E-01	0.00E+00	1.42E-01
		K-40	3.21E-01	1.68E-01	2.21E-01
Sample ID: 483992	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	4.77E-01	2.19E-01	2.58E-01
Sample ID: 484162	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.32E-02	0.00E+00	3.32E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<2.05E-02	0.00E+00	2.05E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	3.30E-01	1.49E-01	1.50E-01
Sample ID: 485013	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.61E-02	0.00E+00	1.61E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.68E-01	1.74E-01	1.45E-01
Sample ID: 485243	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.86E-02	0.00E+00	2.86E-02
		Cs-134	<1.47E-02	0.00E+00	1.47E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	5.21E-01	1.87E-01	1.75E-01
Sample ID: 486137	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	3.51E-01	1.80E-01	2.22E-01
Sample ID: 486683	Sample Dates: 10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.34E-02	0.00E+00	1.34E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	4.31E-01	1.64E-01	1.37E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID: 487722	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<2.14E-02	0.00E+00	2.14E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	3.92E-01	1.68E-01	1.73E-01
Sample ID: 487969	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
		K-40	4.71E-01	1.70E-01	1.38E-01
Sample ID: 488454	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	5.18E-01	2.07E-01	2.28E-01
Sample ID: 488830	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	4.84E-01	1.84E-01	1.80E-01
Sample ID: 489134	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	3.58E-01	1.82E-01	2.28E-01
Sample ID: 489719	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	3.54E-01	1.58E-01	1.67E-01
Sample ID: 490135	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	5.85E-01	2.05E-01	1.96E-01
Sample ID: 490781	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<1.26E-02	0.00E+00	1.26E-02
		Cs-137	<1.34E-02	0.00E+00	1.34E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	3.87E-01	1.64E-01	1.84E-01
Sample ID: 491161	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<9.81E-02	0.00E+00	9.81E-02
		K-40	3.49E-01	1.66E-01	1.92E-01
Sample ID: 491465	Sample Dates: 12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<1.07E-02	0.00E+00	1.07E-02
		Cs-137	<1.26E-02	0.00E+00	1.26E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	3.58E-01	1.87E-01	2.53E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
491730	12/26/2018 - 12/31/2018	I-131	<4.66E-02	0.00E+00	4.66E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<2.64E-02	0.00E+00	2.64E-02
		Be-7	<1.95E-01	0.00E+00	1.95E-01
		K-40	<5.74E-01	0.00E+00	5.74E-01

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
465976	1/2/2018 - 1/8/2018	I-131	<3.24E-02	0.00E+00	3.24E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.85E-01	0.00E+00	1.85E-01
		K-40	4.53E-01	1.86E-01	1.74E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
466176	1/8/2018 - 1/15/2018	I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	4.30E-01	1.71E-01	1.59E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
466374	1/15/2018 - 1/22/2018	I-131	<1.99E-02	0.00E+00	1.99E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.86E-01	2.05E-01	2.44E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
466962	1/22/2018 - 1/29/2018	I-131	<1.83E-02	0.00E+00	1.83E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	6.67E-01	2.07E-01	1.54E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
467321	1/29/2018 - 2/5/2018	I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	3.49E-01	1.82E-01	2.35E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
467630	2/5/2018 - 2/12/2018	I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	4.06E-01	1.81E-01	2.05E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
468422	2/12/2018 - 2/19/2018	I-131	<2.79E-02	0.00E+00	2.79E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.39E-01	1.88E-01	2.13E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
468743	2/19/2018 - 2/26/2018	I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<1.45E-02	0.00E+00	1.45E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	6.18E-01	2.09E-01	1.94E-01

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
469555	2/26/2018 - 3/5/2018	I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 469555	Sample Dates: 2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	<3.70E-01	0.00E+00	3.70E-01
Sample ID: 470577	Sample Dates: 3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<9.79E-02	0.00E+00	9.79E-02
		K-40	4.18E-01	1.90E-01	2.27E-01
Sample ID: 471144	Sample Dates: 3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	3.46E-01	1.77E-01	2.24E-01
Sample ID: 471699	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	6.70E-01	1.97E-01	3.63E-02
Sample ID: 472486	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	4.77E-01	1.80E-01	1.70E-01
Sample ID: 472961	Sample Dates: 4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	3.64E-01	1.77E-01	2.12E-01
Sample ID: 473252	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	4.41E-01	2.01E-01	2.49E-01
Sample ID: 473617	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	7.55E-01	2.09E-01	3.59E-02
Sample ID: 474137	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.40E-02	0.00E+00	1.40E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	3.96E-01	1.82E-01	2.17E-01
Sample ID: 474515	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	4.44E-01	1.56E-01	3.54E-02
Sample ID: 474874	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 474874	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.87E-02	0.00E+00	1.87E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<9.60E-02	0.00E+00	9.60E-02
		K-40	4.53E-01	1.64E-01	1.21E-01
Sample ID: 475198	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
Sample ID: 475523	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.38E-02	0.00E+00	1.38E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
Sample ID: 476348	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<2.33E-02	0.00E+00	2.33E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
Sample ID: 477360	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.03E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
Sample ID: 478090	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
Sample ID: 478410	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
Sample ID: 478770	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
Sample ID: 479042	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 479863	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 480233	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
		K-40	6.59E-01	1.99E-01	1.33E-01
Sample ID: 481060	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	3.64E-01	1.92E-01	2.51E-01
Sample ID: 481504	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.74E-02	0.00E+00	2.74E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	<3.93E-01	0.00E+00	3.93E-01
Sample ID: 481937	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	6.61E-01	2.11E-01	1.75E-01
Sample ID: 482469	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.64E-02	0.00E+00	1.64E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<9.12E-02	0.00E+00	9.12E-02
		K-40	2.17E-01	1.49E-01	2.10E-01
Sample ID: 482794	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.64E-02	0.00E+00	1.64E-02
		Cs-134	<1.65E-02	0.00E+00	1.65E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<8.63E-02	0.00E+00	8.63E-02
		K-40	<2.94E-01	0.00E+00	2.94E-01
Sample ID: 483419	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<1.36E-02	0.00E+00	1.36E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	4.93E-01	1.78E-01	1.81E-01
Sample ID: 483994	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.21E-02	0.00E+00	2.21E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	5.24E-01	2.20E-01	2.37E-01
Sample ID: 484164	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	<3.51E-01	0.00E+00	3.51E-01
Sample ID: 485015	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	4.75E-01	1.95E-01	2.13E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 485245	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.78E-02	0.00E+00	3.78E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
		K-40	4.11E-01	2.09E-01	2.75E-01
Sample ID: 486139	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	4.47E-01	1.65E-01	1.30E-01
Sample ID: 486685	Sample Dates: 10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	4.75E-01	1.97E-01	2.05E-01
Sample ID: 487724	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	3.88E-01	1.45E-01	3.51E-02
Sample ID: 487971	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	3.92E-01	1.98E-01	2.59E-01
Sample ID: 488456	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	4.15E-01	1.86E-01	2.13E-01
Sample ID: 488832	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	5.60E-01	1.86E-01	1.38E-01
Sample ID: 489136	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	4.97E-01	1.72E-01	1.16E-01
Sample ID: 489721	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	4.44E-01	1.95E-01	2.31E-01
Sample ID: 490137	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	5.00E-01	1.87E-01	1.75E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

Sample ID: 490783	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	3.62E-01	1.86E-01	2.49E-01
Sample ID: 491163	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<1.27E-02	0.00E+00	1.27E-02
		Be-7	<9.11E-02	0.00E+00	9.11E-02
		K-40	2.85E-01	1.33E-01	1.18E-01
Sample ID: 491467	Sample Dates: 12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.27E-02	0.00E+00	3.27E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	<2.98E-01	0.00E+00	2.98E-01
Sample ID: 491732	Sample Dates: 12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.85E-02	0.00E+00	4.85E-02
		Cs-134	<2.94E-02	0.00E+00	2.94E-02
		Cs-137	<2.57E-02	0.00E+00	2.57E-02
		Be-7	<1.76E-01	0.00E+00	1.76E-01
		K-40	<5.81E-01	0.00E+00	5.81E-01

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID: 465978	Sample Dates: 1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	4.39E-01	2.00E-01	2.29E-01
Sample ID: 466178	Sample Dates: 1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.99E-02	0.00E+00	1.99E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	5.19E-01	1.92E-01	1.85E-01
Sample ID: 466376	Sample Dates: 1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	1.64E-03	7.20E-02	1.33E-01
		K-40	3.80E-01	1.61E-01	1.59E-01
Sample ID: 466964	Sample Dates: 1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	<3.90E-01	0.00E+00	3.90E-01
Sample ID: 467323	Sample Dates: 1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.44E-01	1.66E-01	1.37E-01
Sample ID: 467632	Sample Dates: 2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID:	467632	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<1.29E-01	0.00E+00	1.29E-01
				K-40	4.27E-01	1.65E-01	1.38E-01
Sample ID:	468424	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.97E-02	0.00E+00	2.97E-02
				Cs-134	<1.69E-02	0.00E+00	1.69E-02
				Cs-137	<1.70E-02	0.00E+00	1.70E-02
				Be-7	<1.08E-01	0.00E+00	1.08E-01
				K-40	5.12E-01	1.65E-01	3.38E-02
Sample ID:	468745	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.01E-02	0.00E+00	2.01E-02
				Cs-134	<1.48E-02	0.00E+00	1.48E-02
				Cs-137	<1.84E-02	0.00E+00	1.84E-02
				Be-7	<1.38E-01	0.00E+00	1.38E-01
				K-40	6.21E-01	1.88E-01	3.58E-02
Sample ID:	469557	Sample Dates:	2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.36E-02	0.00E+00	2.36E-02
				Cs-134	<1.89E-02	0.00E+00	1.89E-02
				Cs-137	<1.66E-02	0.00E+00	1.66E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	4.66E-01	2.01E-01	2.39E-01
Sample ID:	470579	Sample Dates:	3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.72E-02	0.00E+00	1.72E-02
				Cs-134	<1.90E-02	0.00E+00	1.90E-02
				Cs-137	<1.72E-02	0.00E+00	1.72E-02
				Be-7	<1.07E-01	0.00E+00	1.07E-01
				K-40	3.49E-01	2.15E-01	3.08E-01
Sample ID:	471146	Sample Dates:	3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.66E-02	0.00E+00	2.66E-02
				Cs-134	<1.42E-02	0.00E+00	1.42E-02
				Cs-137	<1.72E-02	0.00E+00	1.72E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	4.60E-01	1.87E-01	2.02E-01
Sample ID:	471701	Sample Dates:	3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.29E-02	0.00E+00	2.29E-02
				Cs-134	<1.77E-02	0.00E+00	1.77E-02
				Cs-137	<1.62E-02	0.00E+00	1.62E-02
				Be-7	<1.13E-01	0.00E+00	1.13E-01
				K-40	4.98E-01	1.88E-01	1.80E-01
Sample ID:	472488	Sample Dates:	3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.32E-02	0.00E+00	2.32E-02
				Cs-134	<1.65E-02	0.00E+00	1.65E-02
				Cs-137	<1.14E-02	0.00E+00	1.14E-02
				Be-7	<1.23E-01	0.00E+00	1.23E-01
				K-40	5.83E-01	1.89E-01	1.37E-01
Sample ID:	472963	Sample Dates:	4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.03E-02	0.00E+00	2.03E-02
				Cs-134	<1.68E-02	0.00E+00	1.68E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<1.20E-01	0.00E+00	1.20E-01
				K-40	2.90E-01	1.65E-01	2.13E-01
Sample ID:	473254	Sample Dates:	4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<1.98E-02	0.00E+00	1.98E-02
				Cs-134	<1.78E-02	0.00E+00	1.78E-02
				Cs-137	<1.90E-02	0.00E+00	1.90E-02
				Be-7	<1.28E-01	0.00E+00	1.28E-01
				K-40	5.01E-01	2.44E-01	3.31E-01
Sample ID:	473619	Sample Dates:	4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.62E-02	0.00E+00	2.62E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID: 473619	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
		K-40	4.26E-01	1.52E-01	3.50E-02
Sample ID: 474139	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<2.02E-02	0.00E+00	2.02E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
Sample ID: 474517	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.42E-01	0.00E+00	1.42E-01
Sample ID: 474876	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.65E-02	0.00E+00	1.65E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
Sample ID: 475200	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
Sample ID: 475525	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.06E-01	0.00E+00	1.06E-01
Sample ID: 476350	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.88E-02	0.00E+00	2.88E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
Sample ID: 477362	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.00E-02	0.00E+00	2.00E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.00E-02	0.00E+00	2.00E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
Sample ID: 478092	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.85E-02	0.00E+00	2.85E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
Sample ID: 478412	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
Sample ID: 478412	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		K-40	3.86E-01	1.88E-01	2.32E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID: 478772	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	6.20E-01	2.45E-01	2.99E-01
Sample ID: 479044	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	5.46E-01	1.88E-01	1.62E-01
Sample ID: 479865	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	3.96E-01	2.22E-01	3.08E-01
Sample ID: 480235	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	5.16E-01	1.82E-01	1.52E-01
Sample ID: 481062	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<2.09E-02	0.00E+00	2.09E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	<3.65E-01	0.00E+00	3.65E-01
Sample ID: 481506	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.62E-02	0.00E+00	2.62E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	4.96E-01	1.75E-01	1.44E-01
Sample ID: 481939	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	6.13E-01	2.23E-01	2.37E-01
Sample ID: 482471	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.78E-02	0.00E+00	1.78E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	3.23E-01	1.67E-01	2.05E-01
Sample ID: 482796	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.67E-02	0.00E+00	1.67E-02
		Cs-134	<1.18E-02	0.00E+00	1.18E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<9.89E-02	0.00E+00	9.89E-02
		K-40	1.59E-01	1.43E-01	2.17E-01
Sample ID: 483421	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.11E-02	0.00E+00	1.11E-02
		Be-7	<9.08E-02	0.00E+00	9.08E-02
		K-40	4.05E-01	1.57E-01	1.55E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID: 483996	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.54E-01	0.00E+00	1.54E-01
		K-40	6.50E-01	2.59E-01	2.98E-01
Sample ID: 484166	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.41E-02	0.00E+00	3.41E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	3.94E-01	1.75E-01	1.92E-01
Sample ID: 485017	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.96E-02	0.00E+00	2.96E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	4.27E-01	1.86E-01	2.10E-01
Sample ID: 485247	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.14E-02	0.00E+00	3.14E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	5.54E-01	1.73E-01	3.41E-02
Sample ID: 486141	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.06E-01	1.83E-01	1.57E-01
Sample ID: 486687	Sample Dates: 10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.91E-01	1.70E-01	1.13E-01
Sample ID: 487726	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	6.93E-01	2.23E-01	2.08E-01
Sample ID: 487973	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	2.74E-01	1.76E-01	2.48E-01
Sample ID: 488458	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<9.92E-02	0.00E+00	9.92E-02
		K-40	4.21E-01	2.08E-01	2.69E-01
Sample ID: 488834	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	3.51E-01	1.90E-01	2.51E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID: 489138	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	4.34E-01	1.72E-01	1.63E-01
Sample ID: 489723	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	4.80E-01	1.60E-01	3.42E-02
Sample ID: 490139	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	4.04E-01	1.93E-01	2.39E-01
Sample ID: 490785	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.34E-02	0.00E+00	1.34E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	<3.68E-01	0.00E+00	3.68E-01
Sample ID: 491165	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.44E-02	0.00E+00	1.44E-02
		Cs-134	<1.16E-02	0.00E+00	1.16E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<9.40E-02	0.00E+00	9.40E-02
		K-40	<2.78E-01	0.00E+00	2.78E-01
Sample ID: 491469	Sample Dates: 12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.51E-02	0.00E+00	3.51E-02
		Cs-134	<1.32E-02	0.00E+00	1.32E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<9.53E-02	0.00E+00	9.53E-02
		K-40	4.31E-01	1.62E-01	1.56E-01
Sample ID: 491734	Sample Dates: 12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.45E-02	0.00E+00	5.45E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<1.88E-01	0.00E+00	1.88E-01
		K-40	4.81E-01	2.57E-01	3.46E-01

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 465975	Sample Dates: 1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.95E-02	0.00E+00	2.95E-02
		Cs-134	<2.09E-02	0.00E+00	2.09E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.53E-01	0.00E+00	1.53E-01
		K-40	6.96E-01	2.26E-01	1.76E-01
Sample ID: 466175	Sample Dates: 1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.76E-02	0.00E+00	2.76E-02
		Cs-134	<1.35E-02	0.00E+00	1.35E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	5.76E-01	2.11E-01	2.21E-01
Sample ID: 466373	Sample Dates: 1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 466373	Sample Dates: 1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.36E-01	1.82E-01	1.97E-01
Sample ID: 466961	Sample Dates: 1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	3.38E-01	2.01E-01	2.78E-01
Sample ID: 467320	Sample Dates: 1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	4.38E-01	2.08E-01	2.65E-01
Sample ID: 467629	Sample Dates: 2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<2.11E-02	0.00E+00	2.11E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	4.04E-01	1.73E-01	1.84E-01
Sample ID: 468421	Sample Dates: 2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	6.01E-01	1.96E-01	1.60E-01
Sample ID: 468742	Sample Dates: 2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.83E-02	0.00E+00	1.83E-02
		Cs-134	<1.17E-02	0.00E+00	1.17E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	6.43E-01	1.98E-01	1.28E-01
Sample ID: 469554	Sample Dates: 2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.75E-02	0.00E+00	2.75E-02
		Cs-134	<1.91E-02	0.00E+00	1.91E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	5.02E-01	1.92E-01	1.91E-01
Sample ID: 470576	Sample Dates: 3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	6.81E-01	1.96E-01	3.55E-02
Sample ID: 471143	Sample Dates: 3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	5.75E-01	2.25E-01	2.65E-01
Sample ID: 471698	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.70E-01	2.04E-01	2.00E-01
Sample ID: 472485	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 472485	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	5.36E-01	1.71E-01	3.46E-02
Sample ID: 472960	Sample Dates: 4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
Sample ID: 473251	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
Sample ID: 473616	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
Sample ID: 474136	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 474514	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
Sample ID: 474873	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 475197	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.40E-01	0.00E+00	1.40E-01
Sample ID: 475522	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.94E-02	0.00E+00	1.94E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
Sample ID: 476347	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<2.40E-02	0.00E+00	2.40E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 477359	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.65E-02	0.00E+00	1.65E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.49E-01	1.72E-01	1.48E-01
Sample ID: 478089	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	5.65E-01	1.87E-01	1.32E-01
Sample ID: 478409	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	<3.32E-01	0.00E+00	3.32E-01
Sample ID: 478769	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.62E-01	1.75E-01	3.46E-02
Sample ID: 479041	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	4.12E-01	2.12E-01	2.84E-01
Sample ID: 479862	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	4.57E-01	1.88E-01	2.01E-01
Sample ID: 480232	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<2.46E-02	0.00E+00	2.46E-02
		Cs-137	<2.22E-02	0.00E+00	2.22E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
		K-40	5.51E-01	2.22E-01	2.21E-01
Sample ID: 481059	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.64E-02	0.00E+00	2.64E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	<4.01E-01	0.00E+00	4.01E-01
Sample ID: 481503	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.41E-02	0.00E+00	1.41E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	5.18E-01	1.74E-01	1.21E-01
Sample ID: 481936	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.22E-02	0.00E+00	2.22E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	5.46E-01	1.94E-01	1.73E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 482468	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.79E-02	0.00E+00	1.79E-02
		Cs-134	<1.75E-02	0.00E+00	1.75E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<9.27E-02	0.00E+00	9.27E-02
		K-40	4.96E-01	1.62E-01	3.36E-02
Sample ID: 482793	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.75E-02	0.00E+00	1.75E-02
		Cs-134	<1.29E-02	0.00E+00	1.29E-02
		Cs-137	<1.25E-02	0.00E+00	1.25E-02
		Be-7	<7.94E-02	0.00E+00	7.94E-02
		K-40	3.96E-01	1.49E-01	1.14E-01
Sample ID: 483418	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.92E-02	0.00E+00	1.92E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	3.53E-01	1.55E-01	1.74E-01
Sample ID: 483993	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	4.61E-01	2.02E-01	2.19E-01
Sample ID: 484163	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.88E-02	0.00E+00	4.88E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<2.60E-02	0.00E+00	2.60E-02
		Be-7	<1.70E-01	0.00E+00	1.70E-01
		K-40	6.38E-01	2.53E-01	2.71E-01
Sample ID: 485014	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.55E-02	0.00E+00	1.55E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	4.80E-01	1.86E-01	1.84E-01
Sample ID: 485244	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.06E-01	0.00E+00	1.06E-01
		K-40	5.91E-01	2.13E-01	2.25E-01
Sample ID: 486138	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	3.11E-01	1.83E-01	2.48E-01
Sample ID: 486684	Sample Dates: 10/8/2018 - 10/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.40E-02	0.00E+00	5.40E-02
		Cs-134	<2.77E-02	0.00E+00	2.77E-02
		Cs-137	<2.77E-02	0.00E+00	2.77E-02
		Be-7	<1.99E-01	0.00E+00	1.99E-01
		K-40	1.02E+00	3.18E-01	3.00E-01
Sample ID: 487723	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	5.10E-01	1.91E-01	1.89E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 487970	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	4.41E-01	2.07E-01	2.63E-01
Sample ID: 488455	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	4.62E-01	1.97E-01	2.27E-01
Sample ID: 488831	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.05E-02	0.00E+00	2.05E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	5.24E-01	1.91E-01	1.81E-01
Sample ID: 489135	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.34E-01	1.69E-01	1.50E-01
Sample ID: 489720	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<1.49E-02	0.00E+00	1.49E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	3.69E-01	1.75E-01	2.09E-01
Sample ID: 490136	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	6.26E-01	1.87E-01	3.53E-02
Sample ID: 490782	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	5.99E-01	1.83E-01	1.40E-01
Sample ID: 491162	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.84E-02	0.00E+00	1.84E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<9.16E-02	0.00E+00	9.16E-02
		K-40	3.74E-01	1.66E-01	1.85E-01
Sample ID: 491466	Sample Dates: 12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.55E-02	0.00E+00	3.55E-02
		Cs-134	<1.50E-02	0.00E+00	1.50E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	4.83E-01	1.71E-01	1.63E-01
Sample ID: 491731	Sample Dates: 12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.20E-02	0.00E+00	5.20E-02
		Cs-134	<2.51E-02	0.00E+00	2.51E-02
		Cs-137	<2.94E-02	0.00E+00	2.94E-02
		Be-7	<1.94E-01	0.00E+00	1.94E-01
		K-40	7.03E-01	2.67E-01	2.60E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID: 465977	Sample Dates: 1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.54E-02	0.00E+00	2.54E-02
		Cs-134	<2.56E-02	0.00E+00	2.56E-02
		Cs-137	<2.08E-02	0.00E+00	2.08E-02
		Be-7	<1.56E-01	0.00E+00	1.56E-01
		K-40	7.30E-01	2.40E-01	2.11E-01
Sample ID: 466177	Sample Dates: 1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	5.09E-01	2.02E-01	2.24E-01
Sample ID: 466375	Sample Dates: 1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.48E-02	0.00E+00	4.48E-02
		Cs-134	<9.87E-03	0.00E+00	9.87E-03
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	2.30E-01	1.27E-01	1.78E-01
Sample ID: 466963	Sample Dates: 1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	5.92E-01	2.26E-01	2.54E-01
Sample ID: 467322	Sample Dates: 1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.97E-01	1.64E-01	3.45E-02
Sample ID: 467631	Sample Dates: 2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<9.11E-02	0.00E+00	9.11E-02
		K-40	3.24E-01	1.84E-01	2.47E-01
Sample ID: 468423	Sample Dates: 2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.21E-02	0.00E+00	1.21E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	7.29E-01	2.12E-01	1.49E-01
Sample ID: 468744	Sample Dates: 2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	5.26E-01	2.09E-01	2.35E-01
Sample ID: 469556	Sample Dates: 2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	4.88E-01	1.94E-01	2.04E-01
Sample ID: 470578	Sample Dates: 3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	4.64E-01	1.72E-01	1.37E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID: 471145	Sample Dates: 3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	5.73E-01	2.20E-01	2.52E-01
Sample ID: 471700	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.87E-02	0.00E+00	2.87E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	4.71E-01	1.73E-01	1.40E-01
Sample ID: 472487	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	3.51E-01	1.75E-01	2.16E-01
Sample ID: 472962	Sample Dates: 4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.96E-02	0.00E+00	1.96E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	3.97E-01	1.93E-01	2.41E-01
Sample ID: 473253	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	4.37E-01	1.70E-01	1.59E-01
Sample ID: 473618	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<2.12E-02	0.00E+00	2.12E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	5.70E-01	2.13E-01	2.26E-01
Sample ID: 474138	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	6.38E-01	1.87E-01	3.46E-02
Sample ID: 474516	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.02E-02	0.00E+00	2.02E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	<4.29E-01	0.00E+00	4.29E-01
Sample ID: 474875	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	3.59E-01	1.87E-01	2.42E-01
Sample ID: 475199	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.70E-02	0.00E+00	1.70E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	3.99E-01	2.23E-01	3.10E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID: 475524	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.60E-02	0.00E+00	1.60E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	3.70E-01	1.42E-01	1.16E-01
Sample ID: 476349	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.28E-02	0.00E+00	3.28E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	6.57E-01	2.01E-01	3.87E-02
Sample ID: 477361	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<3.88E-01	0.00E+00	3.88E-01
Sample ID: 478091	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.76E-02	0.00E+00	2.76E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	5.53E-01	2.04E-01	2.03E-01
Sample ID: 478411	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.43E-02	0.00E+00	1.43E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	3.00E-01	1.65E-01	2.11E-01
Sample ID: 478771	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.53E-02	0.00E+00	1.53E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
		K-40	4.95E-01	1.94E-01	2.06E-01
Sample ID: 479043	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.65E-02	0.00E+00	1.65E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	5.05E-01	1.80E-01	1.51E-01
Sample ID: 479864	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.17E-02	0.00E+00	1.17E-02
		Cs-137	<1.62E-02	0.00E+00	1.62E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	4.71E-01	1.95E-01	2.16E-01
Sample ID: 480234	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	5.81E-01	1.94E-01	1.61E-01
Sample ID: 481061	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.37E-02	0.00E+00	1.37E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	2.59E-01	1.95E-01	2.92E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID: 481505	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.56E-02	0.00E+00	1.56E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.88E-01	1.94E-01	2.11E-01
Sample ID: 481938	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.16E-02	0.00E+00	2.16E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.70E-01	2.40E-01	3.27E-01
Sample ID: 482470	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.67E-02	0.00E+00	2.67E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	2.79E-01	1.31E-01	1.25E-01
Sample ID: 482795	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.42E-02	0.00E+00	1.42E-02
		Cs-134	<1.15E-02	0.00E+00	1.15E-02
		Cs-137	<1.38E-02	0.00E+00	1.38E-02
		Be-7	<8.35E-02	0.00E+00	8.35E-02
		K-40	<2.77E-01	0.00E+00	2.77E-01
Sample ID: 483420	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<9.18E-02	0.00E+00	9.18E-02
		K-40	3.06E-01	1.46E-01	1.70E-01
Sample ID: 483995	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<2.27E-02	0.00E+00	2.27E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.48E-01	0.00E+00	1.48E-01
		K-40	5.29E-01	2.12E-01	2.14E-01
Sample ID: 484165	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.54E-02	0.00E+00	3.54E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<3.61E-01	0.00E+00	3.61E-01
Sample ID: 485016	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	5.13E-01	2.16E-01	2.59E-01
Sample ID: 485246	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.25E-02	0.00E+00	3.25E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	2.50E-01	1.89E-01	2.83E-01
Sample ID: 486140	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.23E-02	0.00E+00	2.23E-02
		Cs-134	<1.61E-02	0.00E+00	1.61E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.31E-01	0.00E+00	1.31E-01
		K-40	3.77E-01	1.82E-01	2.20E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID: 486686	Sample Dates: 10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.65E-02	0.00E+00	2.65E-02
		Cs-134	<1.54E-02	0.00E+00	1.54E-02
		Cs-137	<1.61E-02	0.00E+00	1.61E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	5.84E-01	1.91E-01	1.38E-01
Sample ID: 487725	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	5.95E-01	1.99E-01	1.70E-01
Sample ID: 487972	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.58E-02	0.00E+00	2.58E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	<4.20E-01	0.00E+00	4.20E-01
Sample ID: 488457	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.03E-01	0.00E+00	1.03E-01
		K-40	4.05E-01	1.63E-01	1.42E-01
Sample ID: 488833	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<1.59E-02	0.00E+00	1.59E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	<3.44E-01	0.00E+00	3.44E-01
Sample ID: 489137	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<1.88E-02	0.00E+00	1.88E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	3.06E-01	1.74E-01	2.28E-01
Sample ID: 489722	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.45E-02	0.00E+00	1.45E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	3.45E-01	1.56E-01	1.63E-01
Sample ID: 490138	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.11E-02	0.00E+00	2.11E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.45E-01	0.00E+00	1.45E-01
		K-40	5.63E-01	1.87E-01	1.33E-01
Sample ID: 490784	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.88E-02	0.00E+00	1.88E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.67E-02	0.00E+00	1.67E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	3.22E-01	1.50E-01	1.71E-01
Sample ID: 491164	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<1.17E-02	0.00E+00	1.17E-02
		Be-7	<1.00E-01	0.00E+00	1.00E-01
		K-40	<2.78E-01	0.00E+00	2.78E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 47 [INDICATOR - SSW @ 3.4 miles]

Sample ID:	491468	Sample Dates:	12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.20E-02	0.00E+00	3.20E-02
				Cs-134	<1.81E-02	0.00E+00	1.81E-02
				Cs-137	<1.37E-02	0.00E+00	1.37E-02
				Be-7	<9.84E-02	0.00E+00	9.84E-02
				K-40	3.56E-01	1.37E-01	1.08E-01

Sample ID:	491733	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.02E-02	0.00E+00	5.02E-02
				Cs-134	<2.87E-02	0.00E+00	2.87E-02
				Cs-137	<2.37E-02	0.00E+00	2.37E-02
				Be-7	<1.50E-01	0.00E+00	1.50E-01
				K-40	4.62E-01	2.65E-01	3.57E-01

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	465979	Sample Dates:	1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<3.10E-02	0.00E+00	3.10E-02
				Cs-134	<1.92E-02	0.00E+00	1.92E-02
				Cs-137	<1.64E-02	0.00E+00	1.64E-02
				Be-7	<1.48E-01	0.00E+00	1.48E-01
				K-40	5.56E-01	2.30E-01	2.62E-01

Sample ID:	466179	Sample Dates:	1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.60E-02	0.00E+00	2.60E-02
				Cs-134	<1.81E-02	0.00E+00	1.81E-02
				Cs-137	<1.70E-02	0.00E+00	1.70E-02
				Be-7	<1.18E-01	0.00E+00	1.18E-01
				K-40	3.44E-01	1.80E-01	2.29E-01

Sample ID:	466377	Sample Dates:	1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.22E-02	0.00E+00	2.22E-02
				Cs-134	<1.68E-02	0.00E+00	1.68E-02
				Cs-137	<1.49E-02	0.00E+00	1.49E-02
				Be-7	<1.15E-01	0.00E+00	1.15E-01
				K-40	5.74E-01	1.94E-01	1.72E-01

Sample ID:	466965	Sample Dates:	1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.45E-02	0.00E+00	2.45E-02
				Cs-134	<2.01E-02	0.00E+00	2.01E-02
				Cs-137	<2.05E-02	0.00E+00	2.05E-02
				Be-7	<1.26E-01	0.00E+00	1.26E-01
				K-40	5.72E-01	2.17E-01	2.35E-01

Sample ID:	467324	Sample Dates:	1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.22E-02	0.00E+00	2.22E-02
				Cs-134	<1.58E-02	0.00E+00	1.58E-02
				Cs-137	<1.81E-02	0.00E+00	1.81E-02
				Be-7	<1.33E-01	0.00E+00	1.33E-01
				K-40	3.62E-01	1.60E-01	1.66E-01

Sample ID:	467633	Sample Dates:	2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.35E-02	0.00E+00	2.35E-02
				Cs-134	<2.12E-02	0.00E+00	2.12E-02
				Cs-137	<1.80E-02	0.00E+00	1.80E-02
				Be-7	<1.17E-01	0.00E+00	1.17E-01
				K-40	4.27E-01	1.68E-01	1.53E-01

Sample ID:	468425	Sample Dates:	2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.54E-02	0.00E+00	2.54E-02
				Cs-134	<1.60E-02	0.00E+00	1.60E-02
				Cs-137	<1.76E-02	0.00E+00	1.76E-02
				Be-7	<1.43E-01	0.00E+00	1.43E-01
				K-40	5.90E-01	1.87E-01	1.34E-01

Sample ID:	468746	Sample Dates:	2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.34E-02	0.00E+00	2.34E-02
				Cs-134	<2.01E-02	0.00E+00	2.01E-02
				Cs-137	<1.82E-02	0.00E+00	1.82E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 468746	Sample Dates: 2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	<4.31E-01	0.00E+00	4.31E-01
Sample ID: 469558	Sample Dates: 2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.66E-02	0.00E+00	2.66E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	4.76E-01	1.61E-01	3.49E-02
Sample ID: 470580	Sample Dates: 3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.36E-02	0.00E+00	2.36E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	7.77E-01	2.08E-01	3.45E-02
Sample ID: 471147	Sample Dates: 3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	5.70E-01	1.74E-01	3.36E-02
Sample ID: 471702	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.06E-02	0.00E+00	2.06E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.54E-02	0.00E+00	1.54E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
		K-40	3.82E-01	1.96E-01	2.51E-01
Sample ID: 472489	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<2.10E-02	0.00E+00	2.10E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	<3.53E-01	0.00E+00	3.53E-01
Sample ID: 472964	Sample Dates: 4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<2.11E-02	0.00E+00	2.11E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	5.70E-01	2.10E-01	2.19E-01
Sample ID: 473255	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
		K-40	4.68E-01	1.82E-01	1.88E-01
Sample ID: 473620	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	4.46E-01	2.12E-01	2.68E-01
Sample ID: 474140	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.71E-02	0.00E+00	2.71E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	4.16E-01	1.49E-01	3.42E-02
Sample ID: 474518	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 474518	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	5.19E-01	2.06E-01	2.29E-01
Sample ID: 474877	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.13E-02	0.00E+00	2.13E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
Sample ID: 475201	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.16E-01	0.00E+00	1.16E-01
Sample ID: 475526	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.98E-02	0.00E+00	1.98E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
Sample ID: 476351	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.04E-02	0.00E+00	3.04E-02
		Cs-134	<2.32E-02	0.00E+00	2.32E-02
		Cs-137	<1.98E-02	0.00E+00	1.98E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
Sample ID: 477363	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.87E-02	0.00E+00	1.87E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<1.87E-02	0.00E+00	1.87E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
Sample ID: 478093	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.63E-02	0.00E+00	3.63E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<2.17E-02	0.00E+00	2.17E-02
		Be-7	<1.41E-01	0.00E+00	1.41E-01
Sample ID: 478413	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
Sample ID: 478773	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.46E-01	0.00E+00	1.46E-01
Sample ID: 479045	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.30E-02	0.00E+00	2.30E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
Sample ID: 479045	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		K-40	6.31E-01	1.91E-01	1.24E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 479866	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	5.22E-01	2.20E-01	2.62E-01
Sample ID: 480236	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.28E-01	1.76E-01	1.17E-01
Sample ID: 481063	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	5.11E-01	1.88E-01	1.73E-01
Sample ID: 481507	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.30E-02	0.00E+00	1.30E-02
		Be-7	<1.09E-01	0.00E+00	1.09E-01
		K-40	4.55E-01	1.67E-01	1.28E-01
Sample ID: 481940	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.09E-02	0.00E+00	2.09E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.77E-02	0.00E+00	1.77E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	5.32E-01	2.04E-01	2.19E-01
Sample ID: 482472	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.55E-02	0.00E+00	1.55E-02
		Cs-134	<1.33E-02	0.00E+00	1.33E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<9.20E-02	0.00E+00	9.20E-02
		K-40	1.69E-01	1.13E-01	1.42E-01
Sample ID: 482797	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.45E-02	0.00E+00	1.45E-02
		Cs-134	<1.46E-02	0.00E+00	1.46E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<9.46E-02	0.00E+00	9.46E-02
		K-40	<3.37E-01	0.00E+00	3.37E-01
Sample ID: 483422	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.97E-02	0.00E+00	1.97E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<7.00E-02	0.00E+00	7.00E-02
		K-40	4.77E-01	1.89E-01	2.19E-01
Sample ID: 483997	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.81E-02	0.00E+00	2.81E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.60E-01	0.00E+00	1.60E-01
		K-40	5.66E-01	2.35E-01	2.61E-01
Sample ID: 484167	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.23E-02	0.00E+00	3.23E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	5.50E-01	2.01E-01	2.07E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 485018	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.27E-02	0.00E+00	1.27E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.57E-01	1.98E-01	2.30E-01
Sample ID: 485248	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.50E-02	0.00E+00	3.50E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	4.64E-01	1.55E-01	3.31E-02
Sample ID: 486142	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.49E-01	2.17E-01	2.79E-01
Sample ID: 486688	Sample Dates: 10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.10E-02	0.00E+00	2.10E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	4.16E-01	2.04E-01	2.66E-01
Sample ID: 487727	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<2.06E-02	0.00E+00	2.06E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	4.12E-01	1.65E-01	1.49E-01
Sample ID: 487974	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.31E-02	0.00E+00	1.31E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	2.49E-01	1.88E-01	2.82E-01
Sample ID: 488459	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.01E-02	0.00E+00	2.01E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	4.55E-01	1.74E-01	1.47E-01
Sample ID: 488835	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.32E-02	0.00E+00	2.32E-02
		Cs-134	<1.25E-02	0.00E+00	1.25E-02
		Cs-137	<1.68E-02	0.00E+00	1.68E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.49E-01	1.88E-01	2.08E-01
Sample ID: 489139	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.99E-02	0.00E+00	1.99E-02
		Cs-137	<2.01E-02	0.00E+00	2.01E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	4.34E-01	2.05E-01	2.60E-01
Sample ID: 489724	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.74E-02	0.00E+00	1.74E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	4.95E-01	1.61E-01	3.36E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 490140	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<2.05E-02	0.00E+00	2.05E-02
		Cs-137	<1.64E-02	0.00E+00	1.64E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	3.88E-01	1.70E-01	1.77E-01
Sample ID: 490786	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.04E-02	0.00E+00	2.04E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	5.55E-01	1.76E-01	1.37E-01
Sample ID: 491166	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.94E-02	0.00E+00	1.94E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	4.29E-01	2.06E-01	2.63E-01
Sample ID: 491470	Sample Dates: 12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.61E-02	0.00E+00	3.61E-02
		Cs-134	<1.48E-02	0.00E+00	1.48E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	2.74E-01	1.47E-01	1.87E-01
Sample ID: 491735	Sample Dates: 12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.84E-02	0.00E+00	3.84E-02
		Cs-134	<2.58E-02	0.00E+00	2.58E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	6.00E-01	2.93E-01	3.72E-01

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 465980	Sample Dates: 1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.99E-02	0.00E+00	2.99E-02
		Cs-134	<1.84E-02	0.00E+00	1.84E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	4.77E-01	2.10E-01	2.38E-01
Sample ID: 466180	Sample Dates: 1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<2.31E-02	0.00E+00	2.31E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	5.30E-01	2.05E-01	2.22E-01
Sample ID: 466378	Sample Dates: 1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.44E-02	0.00E+00	2.44E-02
		Cs-134	<1.62E-02	0.00E+00	1.62E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	4.62E-01	1.65E-01	1.25E-01
Sample ID: 466966	Sample Dates: 1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.95E-02	0.00E+00	1.95E-02
		Cs-137	<1.72E-02	0.00E+00	1.72E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	4.48E-01	1.91E-01	2.11E-01
Sample ID: 467325	Sample Dates: 1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.60E-02	0.00E+00	2.60E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 467325	Sample Dates: 1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	6.26E-01	2.00E-01	1.61E-01
Sample ID: 467634	Sample Dates: 2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.24E-02	0.00E+00	1.24E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	4.48E-01	1.94E-01	2.25E-01
Sample ID: 468426	Sample Dates: 2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<2.02E-02	0.00E+00	2.02E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	3.47E-01	1.45E-01	1.26E-01
Sample ID: 468747	Sample Dates: 2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.57E-02	0.00E+00	2.57E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	5.85E-01	2.18E-01	2.32E-01
Sample ID: 469559	Sample Dates: 2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<1.81E-02	0.00E+00	1.81E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	4.79E-01	1.93E-01	2.10E-01
Sample ID: 470581	Sample Dates: 3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.29E-02	0.00E+00	2.29E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		K-40	4.39E-01	2.06E-01	2.60E-01
Sample ID: 471148	Sample Dates: 3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.97E-02	0.00E+00	1.97E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	3.69E-01	2.04E-01	2.80E-01
Sample ID: 471703	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	4.22E-01	1.96E-01	2.37E-01
Sample ID: 472490	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.49E-02	0.00E+00	2.49E-02
		Cs-134	<2.07E-02	0.00E+00	2.07E-02
		Cs-137	<1.41E-02	0.00E+00	1.41E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	5.42E-01	2.04E-01	2.17E-01
Sample ID: 472965	Sample Dates: 4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.43E-02	0.00E+00	2.43E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.81E-02	0.00E+00	1.81E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	4.71E-01	1.86E-01	1.90E-01
Sample ID: 473256	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.05E-02	0.00E+00	2.05E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 473256	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	3.43E-01	1.78E-01	2.28E-01
Sample ID: 473621	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.50E-02	0.00E+00	2.50E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<1.37E-01	0.00E+00	1.37E-01
Sample ID: 474141	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
Sample ID: 474519	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.63E-02	0.00E+00	1.63E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.49E-01	0.00E+00	1.49E-01
Sample ID: 474878	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
Sample ID: 475202	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<1.73E-02	0.00E+00	1.73E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
Sample ID: 475527	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.69E-02	0.00E+00	1.69E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.06E-01	0.00E+00	1.06E-01
Sample ID: 476352	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.01E-02	0.00E+00	3.01E-02
		Cs-134	<1.78E-02	0.00E+00	1.78E-02
		Cs-137	<2.39E-02	0.00E+00	2.39E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
Sample ID: 477364	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.07E-02	0.00E+00	2.07E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
Sample ID: 478094	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.92E-02	0.00E+00	3.92E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.35E-01	0.00E+00	1.35E-01
		Nuclide	Activity	2 Sigma Error	MDA
		K-40	6.25E-01	2.13E-01	1.97E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 478414	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.48E-02	0.00E+00	2.48E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	3.21E-01	1.69E-01	2.11E-01
Sample ID: 478774	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.27E-02	0.00E+00	2.27E-02
		Cs-134	<1.90E-02	0.00E+00	1.90E-02
		Cs-137	<1.57E-02	0.00E+00	1.57E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	6.24E-01	2.11E-01	1.95E-01
Sample ID: 479046	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.37E-02	0.00E+00	1.37E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	4.43E-01	1.75E-01	1.77E-01
Sample ID: 479867	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.98E-02	0.00E+00	1.98E-02
		Cs-137	<2.26E-02	0.00E+00	2.26E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	4.45E-01	1.85E-01	1.97E-01
Sample ID: 480237	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.25E-02	0.00E+00	2.25E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	4.11E-01	2.02E-01	2.61E-01
Sample ID: 481064	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.40E-02	0.00E+00	2.40E-02
		Cs-134	<1.69E-02	0.00E+00	1.69E-02
		Cs-137	<1.76E-02	0.00E+00	1.76E-02
		Be-7	<1.22E-01	0.00E+00	1.22E-01
		K-40	4.03E-01	1.88E-01	2.25E-01
Sample ID: 481508	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.33E-02	0.00E+00	3.33E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
		K-40	4.13E-01	1.96E-01	2.44E-01
Sample ID: 481941	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.52E-02	0.00E+00	2.52E-02
		Cs-134	<1.14E-02	0.00E+00	1.14E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.04E-01	0.00E+00	1.04E-01
		K-40	4.33E-01	1.87E-01	2.13E-01
Sample ID: 482473	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.64E-02	0.00E+00	1.64E-02
		Cs-134	<1.03E-02	0.00E+00	1.03E-02
		Cs-137	<1.38E-02	0.00E+00	1.38E-02
		Be-7	<9.77E-02	0.00E+00	9.77E-02
		K-40	2.20E-01	1.15E-01	1.07E-01
Sample ID: 482798	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.01E-02	0.00E+00	1.01E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<1.35E-02	0.00E+00	1.35E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	<2.93E-01	0.00E+00	2.93E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 483423	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.30E-02	0.00E+00	1.30E-02
		Cs-137	<1.04E-02	0.00E+00	1.04E-02
		Be-7	<7.77E-02	0.00E+00	7.77E-02
		K-40	3.16E-01	1.66E-01	2.18E-01
Sample ID: 483998	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<2.20E-02	0.00E+00	2.20E-02
		Cs-137	<2.45E-02	0.00E+00	2.45E-02
		Be-7	<1.67E-01	0.00E+00	1.67E-01
		K-40	5.97E-01	1.99E-01	4.25E-02
Sample ID: 484168	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<4.26E-02	0.00E+00	4.26E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.07E-01	0.00E+00	1.07E-01
		K-40	3.74E-01	1.72E-01	1.98E-01
Sample ID: 485019	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.41E-02	0.00E+00	2.41E-02
		Cs-134	<1.55E-02	0.00E+00	1.55E-02
		Cs-137	<2.04E-02	0.00E+00	2.04E-02
		Be-7	<1.05E-01	0.00E+00	1.05E-01
		K-40	<3.22E-01	0.00E+00	3.22E-01
Sample ID: 485249	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.19E-02	0.00E+00	3.19E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<9.62E-02	0.00E+00	9.62E-02
		K-40	5.24E-01	1.77E-01	1.37E-01
Sample ID: 486143	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.44E-02	0.00E+00	1.44E-02
		Be-7	<1.28E-01	0.00E+00	1.28E-01
		K-40	6.71E-01	2.13E-01	1.67E-01
Sample ID: 486689	Sample Dates: 10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.83E-02	0.00E+00	2.83E-02
		Cs-134	<1.77E-02	0.00E+00	1.77E-02
		Cs-137	<1.51E-02	0.00E+00	1.51E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	4.87E-01	1.86E-01	1.89E-01
Sample ID: 487728	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.59E-02	0.00E+00	2.59E-02
		Cs-134	<1.94E-02	0.00E+00	1.94E-02
		Cs-137	<1.49E-02	0.00E+00	1.49E-02
		Be-7	<9.19E-02	0.00E+00	9.19E-02
		K-40	4.70E-01	1.81E-01	1.74E-01
Sample ID: 487975	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.75E-02	0.00E+00	1.75E-02
		Cs-134	<1.80E-02	0.00E+00	1.80E-02
		Cs-137	<1.89E-02	0.00E+00	1.89E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
		K-40	5.55E-01	2.01E-01	2.08E-01
Sample ID: 488460	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.17E-02	0.00E+00	2.17E-02
		Cs-134	<2.01E-02	0.00E+00	2.01E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	3.43E-01	1.62E-01	1.77E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 90 [INDICATOR - SSW @ 0.5 miles]

Sample ID: 488836	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.18E-02	0.00E+00	2.18E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.29E-01	0.00E+00	1.29E-01
		K-40	3.30E-01	1.67E-01	2.03E-01
Sample ID: 489140	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.14E-02	0.00E+00	1.14E-02
		Cs-134	<7.47E-03	0.00E+00	7.47E-03
		Cs-137	<6.76E-03	0.00E+00	6.76E-03
		Be-7	<5.17E-02	0.00E+00	5.17E-02
		K-40	2.81E-01	8.11E-02	9.34E-02
Sample ID: 489725	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.54E-01	1.79E-01	1.85E-01
Sample ID: 490141	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.42E-02	0.00E+00	2.42E-02
		Cs-134	<1.57E-02	0.00E+00	1.57E-02
		Cs-137	<1.59E-02	0.00E+00	1.59E-02
		Be-7	2.03E-02	7.97E-02	1.42E-01
		K-40	2.89E-01	1.37E-01	1.54E-01
Sample ID: 490787	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.08E-02	0.00E+00	2.08E-02
		Cs-134	<1.58E-02	0.00E+00	1.58E-02
		Cs-137	<1.43E-02	0.00E+00	1.43E-02
		Be-7	<1.08E-01	0.00E+00	1.08E-01
		K-40	4.15E-01	1.40E-01	3.04E-02
Sample ID: 491167	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.43E-02	0.00E+00	3.43E-02
		Cs-134	<1.38E-02	0.00E+00	1.38E-02
		Cs-137	<1.63E-02	0.00E+00	1.63E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	4.66E-01	2.04E-01	2.48E-01
Sample ID: 491471	Sample Dates: 12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.05E-02	0.00E+00	3.05E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.39E-02	0.00E+00	1.39E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	4.67E-01	1.58E-01	1.23E-01
Sample ID: 491736	Sample Dates: 12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<5.39E-02	0.00E+00	5.39E-02
		Cs-134	<2.13E-02	0.00E+00	2.13E-02
		Cs-137	<2.43E-02	0.00E+00	2.43E-02
		Be-7	<1.81E-01	0.00E+00	1.81E-01
		K-40	6.51E-01	3.03E-01	3.79E-01

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 465981	Sample Dates: 1/2/2018 - 1/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.80E-02	0.00E+00	2.80E-02
		Cs-134	<1.51E-02	0.00E+00	1.51E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	4.48E-01	1.67E-01	4.05E-02
Sample ID: 466181	Sample Dates: 1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<1.44E-02	0.00E+00	1.44E-02
		Cs-137	<1.36E-02	0.00E+00	1.36E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 466181	Sample Dates: 1/8/2018 - 1/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		Be-7	<1.38E-01	0.00E+00	1.38E-01
		K-40	5.10E-01	2.02E-01	2.23E-01
Sample ID: 466379	Sample Dates: 1/15/2018 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.55E-02	0.00E+00	2.55E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.71E-02	0.00E+00	1.71E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
		K-40	5.81E-01	1.92E-01	1.64E-01
Sample ID: 466967	Sample Dates: 1/22/2018 - 1/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.30E-01	0.00E+00	1.30E-01
		K-40	<4.14E-01	0.00E+00	4.14E-01
Sample ID: 467326	Sample Dates: 1/29/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.46E-02	0.00E+00	2.46E-02
		Cs-134	<2.03E-02	0.00E+00	2.03E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.51E-01	0.00E+00	1.51E-01
		K-40	4.96E-01	1.97E-01	2.16E-01
Sample ID: 467635	Sample Dates: 2/5/2018 - 2/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.89E-02	0.00E+00	1.89E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.10E-01	0.00E+00	1.10E-01
		K-40	6.20E-01	1.94E-01	1.32E-01
Sample ID: 468427	Sample Dates: 2/12/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.33E-02	0.00E+00	2.33E-02
		Cs-134	<1.37E-02	0.00E+00	1.37E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	3.85E-01	1.57E-01	1.48E-01
Sample ID: 468748	Sample Dates: 2/19/2018 - 2/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.24E-02	0.00E+00	2.24E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.79E-02	0.00E+00	1.79E-02
		Be-7	<1.24E-01	0.00E+00	1.24E-01
		K-40	5.28E-01	1.74E-01	3.67E-02
Sample ID: 469560	Sample Dates: 2/26/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<1.46E-02	0.00E+00	1.46E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	3.86E-01	1.75E-01	2.00E-01
Sample ID: 470582	Sample Dates: 3/5/2018 - 3/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.38E-02	0.00E+00	2.38E-02
		Cs-134	<2.12E-02	0.00E+00	2.12E-02
		Cs-137	<1.85E-02	0.00E+00	1.85E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	4.51E-01	1.72E-01	1.50E-01
Sample ID: 471149	Sample Dates: 3/12/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	4.21E-01	1.69E-01	1.69E-01
Sample ID: 471704	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 471704	Sample Dates: 3/19/2018 - 3/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<2.19E-02	0.00E+00	2.19E-02
		Be-7	<1.20E-01	0.00E+00	1.20E-01
		K-40	4.35E-01	2.07E-01	2.58E-01
Sample ID: 472491	Sample Dates: 3/26/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.12E-02	0.00E+00	2.12E-02
		Cs-134	<2.39E-02	0.00E+00	2.39E-02
		Cs-137	<1.73E-02	0.00E+00	1.73E-02
		Be-7	<1.36E-01	0.00E+00	1.36E-01
Sample ID: 472966	Sample Dates: 4/2/2018 - 4/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<2.06E-02	0.00E+00	2.06E-02
		Cs-137	<1.80E-02	0.00E+00	1.80E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
Sample ID: 473257	Sample Dates: 4/9/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.90E-02	0.00E+00	1.90E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
Sample ID: 473622	Sample Dates: 4/16/2018 - 4/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<2.00E-02	0.00E+00	2.00E-02
		Cs-137	<1.60E-02	0.00E+00	1.60E-02
		Be-7	<1.34E-01	0.00E+00	1.34E-01
Sample ID: 474142	Sample Dates: 4/23/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.47E-02	0.00E+00	2.47E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.70E-02	0.00E+00	1.70E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
Sample ID: 474520	Sample Dates: 4/30/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.39E-02	0.00E+00	2.39E-02
		Cs-134	<1.86E-02	0.00E+00	1.86E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<9.44E-02	0.00E+00	9.44E-02
Sample ID: 474879	Sample Dates: 5/7/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.26E-02	0.00E+00	2.26E-02
		Cs-134	<1.96E-02	0.00E+00	1.96E-02
		Cs-137	<1.96E-02	0.00E+00	1.96E-02
		Be-7	<1.23E-01	0.00E+00	1.23E-01
Sample ID: 475203	Sample Dates: 5/14/2018 - 5/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.87E-02	0.00E+00	1.87E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.82E-02	0.00E+00	1.82E-02
		Be-7	<1.43E-01	0.00E+00	1.43E-01
Sample ID: 475528	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.15E-02	0.00E+00	2.15E-02
		Cs-134	<1.39E-02	0.00E+00	1.39E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<1.01E-01	0.00E+00	1.01E-01
Sample ID: 475528	Sample Dates: 5/21/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		K-40	3.93E-01	1.55E-01	1.54E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 476353	Sample Dates: 5/29/2018 - 6/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.77E-02	0.00E+00	2.77E-02
		Cs-134	<2.59E-02	0.00E+00	2.59E-02
		Cs-137	<1.83E-02	0.00E+00	1.83E-02
		Be-7	<1.44E-01	0.00E+00	1.44E-01
		K-40	6.51E-01	2.14E-01	1.51E-01
Sample ID: 477365	Sample Dates: 6/4/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.76E-02	0.00E+00	1.76E-02
		Cs-137	<1.50E-02	0.00E+00	1.50E-02
		Be-7	<1.12E-01	0.00E+00	1.12E-01
		K-40	3.98E-01	1.72E-01	1.88E-01
Sample ID: 478095	Sample Dates: 6/11/2018 - 6/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.81E-02	0.00E+00	3.81E-02
		Cs-134	<2.21E-02	0.00E+00	2.21E-02
		Cs-137	<1.92E-02	0.00E+00	1.92E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	3.77E-01	1.73E-01	1.91E-01
Sample ID: 478415	Sample Dates: 6/18/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.51E-02	0.00E+00	2.51E-02
		Cs-134	<1.66E-02	0.00E+00	1.66E-02
		Cs-137	<1.86E-02	0.00E+00	1.86E-02
		Be-7	<1.17E-01	0.00E+00	1.17E-01
		K-40	5.35E-01	1.70E-01	3.45E-02
Sample ID: 478775	Sample Dates: 6/25/2018 - 7/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.91E-02	0.00E+00	1.91E-02
		Cs-134	<1.92E-02	0.00E+00	1.92E-02
		Cs-137	<1.48E-02	0.00E+00	1.48E-02
		Be-7	<1.21E-01	0.00E+00	1.21E-01
		K-40	3.52E-01	1.64E-01	1.83E-01
Sample ID: 479047	Sample Dates: 7/2/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.89E-02	0.00E+00	1.89E-02
		Cs-137	<1.84E-02	0.00E+00	1.84E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	5.40E-01	1.95E-01	1.90E-01
Sample ID: 479868	Sample Dates: 7/9/2018 - 7/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.71E-02	0.00E+00	1.71E-02
		Cs-137	<1.58E-02	0.00E+00	1.58E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	3.72E-01	1.55E-01	1.36E-01
Sample ID: 480238	Sample Dates: 7/16/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<1.85E-02	0.00E+00	1.85E-02
		Cs-137	<1.29E-02	0.00E+00	1.29E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	6.50E-01	2.09E-01	1.80E-01
Sample ID: 481065	Sample Dates: 7/23/2018 - 7/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.88E-02	0.00E+00	1.88E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.25E-01	0.00E+00	1.25E-01
		K-40	5.64E-01	2.30E-01	2.78E-01
Sample ID: 481509	Sample Dates: 7/30/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.19E-02	0.00E+00	2.19E-02
		Cs-134	<1.93E-02	0.00E+00	1.93E-02
		Cs-137	<1.90E-02	0.00E+00	1.90E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	3.98E-01	1.71E-01	1.85E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 481942	Sample Dates: 8/6/2018 - 8/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.79E-02	0.00E+00	1.79E-02
		Cs-134	<1.64E-02	0.00E+00	1.64E-02
		Cs-137	<1.69E-02	0.00E+00	1.69E-02
		Be-7	<1.15E-01	0.00E+00	1.15E-01
		K-40	4.17E-01	1.74E-01	1.75E-01
Sample ID: 482474	Sample Dates: 8/13/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.68E-02	0.00E+00	1.68E-02
		Cs-134	<1.53E-02	0.00E+00	1.53E-02
		Cs-137	<1.32E-02	0.00E+00	1.32E-02
		Be-7	<9.87E-02	0.00E+00	9.87E-02
		K-40	1.98E-01	1.46E-01	2.06E-01
Sample ID: 482799	Sample Dates: 8/20/2018 - 8/27/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.85E-02	0.00E+00	1.85E-02
		Cs-134	<1.83E-02	0.00E+00	1.83E-02
		Cs-137	<1.33E-02	0.00E+00	1.33E-02
		Be-7	<8.45E-02	0.00E+00	8.45E-02
		K-40	6.28E-01	1.84E-01	3.40E-02
Sample ID: 483424	Sample Dates: 8/27/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.14E-02	0.00E+00	2.14E-02
		Cs-134	<1.42E-02	0.00E+00	1.42E-02
		Cs-137	<1.56E-02	0.00E+00	1.56E-02
		Be-7	<9.96E-02	0.00E+00	9.96E-02
		K-40	<2.95E-01	0.00E+00	2.95E-01
Sample ID: 483999	Sample Dates: 9/4/2018 - 9/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.21E-02	0.00E+00	2.21E-02
		Cs-134	<1.82E-02	0.00E+00	1.82E-02
		Cs-137	<1.47E-02	0.00E+00	1.47E-02
		Be-7	<1.47E-01	0.00E+00	1.47E-01
		K-40	4.76E-01	2.34E-01	2.96E-01
Sample ID: 484169	Sample Dates: 9/10/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.86E-02	0.00E+00	3.86E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.33E-01	0.00E+00	1.33E-01
		K-40	5.31E-01	1.85E-01	1.55E-01
Sample ID: 485020	Sample Dates: 9/17/2018 - 9/24/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.31E-02	0.00E+00	2.31E-02
		Cs-134	<1.36E-02	0.00E+00	1.36E-02
		Cs-137	<1.65E-02	0.00E+00	1.65E-02
		Be-7	<1.26E-01	0.00E+00	1.26E-01
		K-40	6.45E-01	2.07E-01	1.72E-01
Sample ID: 485250	Sample Dates: 9/24/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.02E-02	0.00E+00	3.02E-02
		Cs-134	<1.60E-02	0.00E+00	1.60E-02
		Cs-137	<1.95E-02	0.00E+00	1.95E-02
		Be-7	<1.11E-01	0.00E+00	1.11E-01
		K-40	4.94E-01	1.68E-01	1.17E-01
Sample ID: 486144	Sample Dates: 10/1/2018 - 10/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.20E-02	0.00E+00	2.20E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.78E-02	0.00E+00	1.78E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	4.47E-01	1.71E-01	1.40E-01
Sample ID: 486690	Sample Dates: 10/8/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.35E-02	0.00E+00	2.35E-02
		Cs-134	<1.66E-02	0.00E+00	1.67E-02
		Cs-137	<1.74E-02	0.00E+00	1.74E-02
		Be-7	<1.27E-01	0.00E+00	1.27E-01
		K-40	5.37E-01	1.85E-01	1.53E-01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID: 487729	Sample Dates: 10/15/2018 - 10/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<2.10E-02	0.00E+00	2.10E-02
		Cs-137	<1.93E-02	0.00E+00	1.93E-02
		Be-7	<1.32E-01	0.00E+00	1.32E-01
		K-40	4.72E-01	1.87E-01	1.92E-01
Sample ID: 487976	Sample Dates: 10/22/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.72E-02	0.00E+00	1.72E-02
		Cs-137	<1.66E-02	0.00E+00	1.66E-02
		Be-7	<1.14E-01	0.00E+00	1.14E-01
		K-40	3.98E-01	1.68E-01	1.77E-01
Sample ID: 488461	Sample Dates: 10/29/2018 - 11/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.34E-02	0.00E+00	2.34E-02
		Cs-134	<1.68E-02	0.00E+00	1.68E-02
		Cs-137	<1.36E-02	0.00E+00	1.36E-02
		Be-7	<1.39E-01	0.00E+00	1.39E-01
		K-40	6.07E-01	2.20E-01	2.25E-01
Sample ID: 488837	Sample Dates: 11/5/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.28E-02	0.00E+00	2.28E-02
		Cs-134	<1.15E-02	0.00E+00	1.15E-02
		Cs-137	<1.91E-02	0.00E+00	1.91E-02
		Be-7	<1.02E-01	0.00E+00	1.02E-01
		K-40	4.12E-01	1.72E-01	1.76E-01
Sample ID: 489141	Sample Dates: 11/12/2018 - 11/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.46E-02	0.00E+00	1.46E-02
		Cs-134	<7.36E-03	0.00E+00	7.36E-03
		Cs-137	<6.22E-03	0.00E+00	6.22E-03
		Be-7	<4.87E-02	0.00E+00	4.87E-02
		K-40	3.97E-01	9.69E-02	1.05E-01
Sample ID: 489726	Sample Dates: 11/19/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.45E-02	0.00E+00	2.45E-02
		Cs-134	<1.79E-02	0.00E+00	1.79E-02
		Cs-137	<1.75E-02	0.00E+00	1.75E-02
		Be-7	<1.18E-01	0.00E+00	1.18E-01
		K-40	4.63E-01	1.89E-01	2.12E-01
Sample ID: 490142	Sample Dates: 11/26/2018 - 12/3/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.03E-02	0.00E+00	2.03E-02
		Cs-134	<1.67E-02	0.00E+00	1.67E-02
		Cs-137	<1.10E-02	0.00E+00	1.10E-02
		Be-7	<1.13E-01	0.00E+00	1.13E-01
		K-40	<3.61E-01	0.00E+00	3.61E-01
Sample ID: 490788	Sample Dates: 12/3/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.37E-02	0.00E+00	2.37E-02
		Cs-134	<1.52E-02	0.00E+00	1.52E-02
		Cs-137	<1.52E-02	0.00E+00	1.52E-02
		Be-7	<9.04E-02	0.00E+00	9.04E-02
		K-40	5.41E-01	1.80E-01	1.63E-01
Sample ID: 491168	Sample Dates: 12/11/2018 - 12/18/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<2.78E-02	0.00E+00	2.78E-02
		Cs-134	<1.34E-02	0.00E+00	1.34E-02
		Cs-137	<1.42E-02	0.00E+00	1.42E-02
		Be-7	<9.49E-02	0.00E+00	9.49E-02
		K-40	2.23E-01	1.17E-01	1.17E-01
Sample ID: 491472	Sample Dates: 12/18/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<3.20E-02	0.00E+00	3.20E-02
		Cs-134	<1.22E-02	0.00E+00	1.22E-02
		Cs-137	<1.62E-02	0.00E+00	1.61E-02
		Be-7	<1.19E-01	0.00E+00	1.19E-01
		K-40	3.67E-01	1.89E-01	2.57E-01



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Media Type: AIR RADIOIODINE Concentration (Activity): pCi/m3

Sample Point 91 [INDICATOR - ENE @ 1.6 miles]

Sample ID:	491737	Sample Dates:	12/26/2018 - 12/31/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<4.32E-02	0.00E+00	4.32E-02
				Cs-134	<2.90E-02	0.00E+00	2.90E-02
				Cs-137	<2.04E-02	0.00E+00	2.04E-02
				Be-7	<2.03E-01	0.00E+00	2.03E-01
				K-40	7.11E-01	2.75E-01	2.72E-01

Media Type: AQUATIC VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	486133	Sample Dates:	10/1/2018 - 10/1/2018	ALLIWEED	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.75E+01	0.00E+00	1.75E+01
					Co-58	<2.32E+01	0.00E+00	2.32E+01
					Fe-59	<4.25E+01	0.00E+00	4.25E+01
					Co-60	<1.66E+01	0.00E+00	1.66E+01
					Zn-65	<4.73E+01	0.00E+00	4.73E+01
					Zr-95	<3.14E+01	0.00E+00	3.14E+01
					Nb-95	<1.84E+01	0.00E+00	1.84E+01
					I-131	<2.88E+01	0.00E+00	2.88E+01
					Cs-134	<2.60E+01	0.00E+00	2.60E+01
					Cs-137	<1.67E+01	0.00E+00	1.67E+01
					BaLa-140	<2.88E+01	0.00E+00	2.88E+01
					Be-7	<2.27E+02	0.00E+00	2.27E+02
					K-40	3.87E+03	6.58E+02	4.30E+02

Sample Point 41 [INDICATOR - S @ 3.8 miles]

Sample ID:	486134	Sample Dates:	10/1/2018 - 10/1/2018	LYNGBYA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<9.37E+00	0.00E+00	9.37E+00
					Co-58	<8.88E+00	0.00E+00	8.88E+00
					Fe-59	<1.61E+01	0.00E+00	1.61E+01
					Co-60	<1.63E+01	0.00E+00	1.63E+01
					Zn-65	<3.16E+01	0.00E+00	3.16E+01
					Zr-95	<2.42E+01	0.00E+00	2.42E+01
					Nb-95	<1.42E+01	0.00E+00	1.42E+01
					I-131	<1.82E+01	0.00E+00	1.82E+01
					Cs-134	<1.39E+01	0.00E+00	1.39E+01
					Cs-137	8.31E+00	7.02E+00	1.02E+01
					BaLa-140	<1.91E+01	0.00E+00	1.91E+01
					Be-7	5.84E+02	1.38E+02	1.32E+02
					K-40	4.17E+02	1.79E+02	2.22E+02

Sample Point 61 [CONTROL - E @ 2.5 miles]

Sample ID:	486135	Sample Dates:	10/1/2018 - 10/1/2018	HYDRILLA	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<1.68E+01	0.00E+00	1.68E+01
					Co-58	<1.55E+01	0.00E+00	1.55E+01
					Fe-59	<1.94E+01	0.00E+00	1.94E+01
					Co-60	<1.49E+01	0.00E+00	1.49E+01
					Zn-65	<3.29E+01	0.00E+00	3.29E+01
					Zr-95	<2.70E+01	0.00E+00	2.70E+01
					Nb-95	<1.65E+01	0.00E+00	1.65E+01
					I-131	<1.81E+01	0.00E+00	1.81E+01
					Cs-134	<1.60E+01	0.00E+00	1.60E+01
					Cs-137	<1.44E+01	0.00E+00	1.44E+01
					BaLa-140	<2.32E+01	0.00E+00	2.32E+01
					Be-7	2.74E+02	1.15E+02	1.47E+02
					K-40	2.55E+03	4.25E+02	2.15E+02

Media Type: CROPS Concentration (Activity): pCi/kg wet

Sample Point 97 [CONTROL - NW @ 19.1 miles]

Sample ID:	465982	Sample Dates:	1/8/2018 - 1/8/2018	KALE	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<1.88E+01	0.00E+00	1.88E+01
					Cs-134	<2.11E+01	0.00E+00	2.11E+01
					Cs-137	<1.62E+01	0.00E+00	1.62E+01
					Be-7	<1.85E+02	0.00E+00	1.85E+02



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Media Type: CROPS Concentration (Activity): pCi/kg wet

Sample Point 97 [CONTROL - NW @ 19.1 miles]

Sample ID:	465982	Sample Dates:	1/8/2018 - 1/8/2018	KALE	Nuclide	Activity	2 Sigma Error	MDA
					K-40	6.36E+03	7.97E+02	1.78E+02
Sample ID:	465984	Sample Dates:	1/8/2018 - 1/8/2018	LETTUCE	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<1.80E+01	0.00E+00	1.80E+01
					Cs-134	<2.14E+01	0.00E+00	2.14E+01
					Cs-137	<1.98E+01	0.00E+00	1.98E+01
					Be-7	<1.05E+02	0.00E+00	1.05E+02
					K-40	2.60E+03	4.53E+02	2.30E+02
Sample ID:	465983	Sample Dates:	1/8/2018 - 1/8/2018	MUSTGREENS	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<1.26E+01	0.00E+00	1.26E+01
					Cs-134	<1.54E+01	0.00E+00	1.54E+01
					Cs-137	<1.47E+01	0.00E+00	1.47E+01
					Be-7	<9.46E+01	0.00E+00	9.46E+01
					K-40	4.16E+03	5.48E+02	2.98E+02
Sample ID:	467636	Sample Dates:	2/12/2018 - 2/12/2018	ARUGULA	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<1.91E+01	0.00E+00	1.91E+01
					Cs-134	<1.40E+01	0.00E+00	1.40E+01
					Cs-137	<1.36E+01	0.00E+00	1.36E+01
					Be-7	<1.03E+02	0.00E+00	1.03E+02
					K-40	2.89E+03	4.30E+02	1.71E+02
Sample ID:	467637	Sample Dates:	2/12/2018 - 2/12/2018	COLLARDS	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<2.11E+01	0.00E+00	2.11E+01
					Cs-134	<1.90E+01	0.00E+00	1.90E+01
					Cs-137	<1.63E+01	0.00E+00	1.63E+01
					Be-7	1.58E+02	1.10E+02	1.66E+02
					K-40	3.48E+03	5.20E+02	2.36E+02
Sample ID:	467638	Sample Dates:	2/12/2018 - 2/12/2018	KALE	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<3.28E+01	0.00E+00	3.28E+01
					Cs-134	<2.61E+01	0.00E+00	2.61E+01
					Cs-137	<2.15E+01	0.00E+00	2.15E+01
					Be-7	2.48E+02	1.74E+02	2.64E+02
					K-40	4.04E+03	6.71E+02	3.77E+02
Sample ID:	470584	Sample Dates:	3/12/2018 - 3/12/2018	CHARD	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<4.78E+01	0.00E+00	4.78E+01
					Cs-134	<2.78E+01	0.00E+00	2.78E+01
					Cs-137	<2.88E+01	0.00E+00	2.88E+01
					Be-7	<2.50E+02	0.00E+00	2.50E+02
					K-40	3.81E+03	6.97E+02	2.61E+02
Sample ID:	470583	Sample Dates:	3/12/2018 - 3/12/2018	ARUGULA	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<4.27E+01	0.00E+00	4.27E+01
					Cs-134	<2.35E+01	0.00E+00	2.35E+01
					Cs-137	<3.16E+01	0.00E+00	3.16E+01
					Be-7	<2.64E+02	0.00E+00	2.64E+02
					K-40	3.17E+03	7.16E+02	6.39E+02
Sample ID:	470585	Sample Dates:	3/12/2018 - 3/12/2018	KALE	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<4.58E+01	0.00E+00	4.58E+01
					Cs-134	<3.09E+01	0.00E+00	3.09E+01
					Cs-137	<4.20E+01	0.00E+00	4.20E+01
					Be-7	<3.18E+02	0.00E+00	3.18E+02
					K-40	4.70E+03	9.33E+02	7.03E+02
Sample ID:	472967	Sample Dates:	4/9/2018 - 4/9/2018	KALE	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<4.69E+01	0.00E+00	4.69E+01
					Cs-134	<2.82E+01	0.00E+00	2.82E+01
					Cs-137	<3.01E+01	0.00E+00	3.01E+01
					Be-7	<2.31E+02	0.00E+00	2.31E+02
					K-40	4.12E+03	6.75E+02	3.72E+02
Sample ID:	472968	Sample Dates:	4/9/2018 - 4/9/2018	LETTUCE	Nuclide	Activity	2 Sigma Error	MDA
					I-131	<3.93E+01	0.00E+00	3.93E+01
					Cs-134	<2.04E+01	0.00E+00	2.04E+01



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Media Type: CROPS Concentration (Activity): pCi/kg wet

Sample Point 97 [CONTROL - NW @ 19.1 miles]

Sample ID: 472968	Sample Dates: 4/9/2018 - 4/9/2018	LETTUCE	Nuclide	Activity	2 Sigma Error	MDA
			Cs-137	<2.71E+01	0.00E+00	2.71E+01
			Be-7	<2.69E+02	0.00E+00	2.69E+02
			K-40	1.57E+03	4.33E+02	2.74E+02
Sample ID: 472969	Sample Dates: 4/9/2018 - 4/9/2018	PARSLEY	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.24E+01	0.00E+00	2.24E+01
			Cs-134	<3.86E+01	0.00E+00	3.86E+01
			Cs-137	<3.51E+01	0.00E+00	3.51E+01
			Be-7	<1.90E+02	0.00E+00	1.90E+02
Sample ID: 474883	Sample Dates: 5/7/2018 - 5/7/2018	ARUGULA	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.59E+01	0.00E+00	1.59E+01
			Cs-134	<1.68E+01	0.00E+00	1.68E+01
			Cs-137	<1.55E+01	0.00E+00	1.55E+01
			Be-7	<1.38E+02	0.00E+00	1.38E+02
Sample ID: 474884	Sample Dates: 5/7/2018 - 5/7/2018	CHARD	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.49E+01	0.00E+00	1.49E+01
			Cs-134	<1.66E+01	0.00E+00	1.66E+01
			Cs-137	<2.08E+01	0.00E+00	2.08E+01
			Be-7	<1.15E+02	0.00E+00	1.15E+02
Sample ID: 474885	Sample Dates: 5/7/2018 - 5/7/2018	LETTUCE	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<2.20E+01	0.00E+00	2.20E+01
			Cs-134	<2.62E+01	0.00E+00	2.62E+01
			Cs-137	<2.48E+01	0.00E+00	2.48E+01
			Be-7	<1.94E+02	0.00E+00	1.94E+02
Sample ID: 477369	Sample Dates: 6/4/2018 - 6/4/2018	CABBAGE	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.36E+01	0.00E+00	1.36E+01
			Cs-134	<1.46E+01	0.00E+00	1.46E+01
			Cs-137	<1.65E+01	0.00E+00	1.65E+01
			Be-7	1.29E+01	5.27E+01	9.62E+01
Sample ID: 477370	Sample Dates: 6/4/2018 - 6/4/2018	CHARD	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.30E+01	0.00E+00	1.30E+01
			Cs-134	<1.33E+01	0.00E+00	1.33E+01
			Cs-137	<1.36E+01	0.00E+00	1.36E+01
			Be-7	2.17E+02	1.20E+02	1.77E+02
Sample ID: 477371	Sample Dates: 6/4/2018 - 6/4/2018	BOKCHOY	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.12E+01	0.00E+00	1.12E+01
			Cs-134	<1.44E+01	0.00E+00	1.44E+01
			Cs-137	<1.98E+01	0.00E+00	1.98E+01
			Be-7	<1.05E+02	0.00E+00	1.05E+02
Sample ID: 479051	Sample Dates: 7/2/2018 - 7/2/2018	CABBAGE	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.65E+01	0.00E+00	1.65E+01
			Cs-134	<1.28E+01	0.00E+00	1.28E+01
			Cs-137	<1.60E+01	0.00E+00	1.60E+01
			Be-7	<6.81E+01	0.00E+00	6.81E+01
Sample ID: 479052	Sample Dates: 7/2/2018 - 7/2/2018	CUCUMBERS	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.43E+01	0.00E+00	1.43E+01
			Cs-134	<1.11E+01	0.00E+00	1.11E+01
			Cs-137	<1.39E+01	0.00E+00	1.39E+01
			Be-7	<5.90E+01	0.00E+00	5.90E+01
Sample ID: 479052	Sample Dates: 7/2/2018 - 7/2/2018	CUCUMBERS	Nuclide	Activity	2 Sigma Error	MDA
			K-40	9.46E+02	2.12E+02	1.43E+02



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Media Type: CROPS Concentration (Activity): pCi/kg wet

Sample Point 97 [CONTROL - NW @ 19.1 miles]

Sample ID: 479053	Sample Dates: 7/2/2018 - 7/2/2018	SQUASH	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.58E+01	0.00E+00	1.58E+01
			Cs-134	<1.19E+01	0.00E+00	1.19E+01
			Cs-137	<1.13E+01	0.00E+00	1.13E+01
			Be-7	<9.98E+01	0.00E+00	9.98E+01
			K-40	1.39E+03	2.57E+02	1.52E+02
Sample ID: 481946	Sample Dates: 8/7/2018 - 8/7/2018	ONIONS	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.79E+01	0.00E+00	1.79E+01
			Cs-134	<1.41E+01	0.00E+00	1.41E+01
			Cs-137	<1.12E+01	0.00E+00	1.12E+01
			Be-7	<8.58E+01	0.00E+00	8.58E+01
			K-40	1.60E+03	2.91E+02	1.46E+02
Sample ID: 481947	Sample Dates: 8/7/2018 - 8/7/2018	PEPPERS	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.50E+01	0.00E+00	1.50E+01
			Cs-134	<1.22E+01	0.00E+00	1.22E+01
			Cs-137	<1.09E+01	0.00E+00	1.09E+01
			Be-7	<8.57E+01	0.00E+00	8.57E+01
			K-40	1.90E+03	3.14E+02	1.50E+02
Sample ID: 481948	Sample Dates: 8/7/2018 - 8/7/2018	TOMATOES	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.67E+01	0.00E+00	1.67E+01
			Cs-134	<1.22E+01	0.00E+00	1.22E+01
			Cs-137	<8.71E+00	0.00E+00	8.71E+00
			Be-7	<8.54E+01	0.00E+00	8.54E+01
			K-40	1.34E+03	2.56E+02	1.58E+02
Sample ID: 484003	Sample Dates: 9/10/2018 - 9/10/2018	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.17E+01	0.00E+00	1.17E+01
			Cs-134	<1.12E+01	0.00E+00	1.12E+01
			Cs-137	<1.03E+01	0.00E+00	1.03E+01
			Be-7	<9.09E+01	0.00E+00	9.09E+01
			K-40	1.38E+03	3.01E+02	2.67E+02
Sample ID: 486148	Sample Dates: 10/8/2018 - 10/8/2018	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.07E+01	0.00E+00	1.07E+01
			Cs-134	<1.54E+01	0.00E+00	1.54E+01
			Cs-137	<1.44E+01	0.00E+00	1.44E+01
			Be-7	5.56E+01	7.25E+01	1.19E+02
			K-40	2.26E+03	4.10E+02	3.18E+02
Sample ID: 488838	Sample Dates: 11/5/2018 - 11/5/2018	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.17E+01	0.00E+00	1.17E+01
			Cs-134	<1.39E+01	0.00E+00	1.39E+01
			Cs-137	<1.41E+01	0.00E+00	1.41E+01
			Be-7	7.70E+01	8.69E+01	1.41E+02
			K-40	2.60E+03	3.98E+02	1.83E+02
Sample ID: 490789	Sample Dates: 12/3/2018 - 12/3/2018	MIXEDCROPS	Nuclide	Activity	2 Sigma Error	MDA
			I-131	<1.47E+01	0.00E+00	1.47E+01
			Cs-134	<1.90E+01	0.00E+00	1.90E+01
			Cs-137	<1.36E+01	0.00E+00	1.36E+01
			Be-7	<1.29E+02	0.00E+00	1.29E+02
			K-40	2.46E+03	4.15E+02	3.66E+01

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 466184	Sample Dates: 12/26/2017 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	5.15E+00	1.12E+00	1.58E+00
		Mn-54	<4.28E+00	0.00E+00	4.28E+00
		Co-58	<3.43E+00	0.00E+00	3.43E+00
		Fe-59	<7.56E+00	0.00E+00	7.56E+00
		Co-60	<3.51E+00	0.00E+00	3.51E+00
		Zn-65	<1.05E+01	0.00E+00	1.05E+01
		Zr-95	<5.66E+00	0.00E+00	5.66E+00
		Nb-95	<4.75E+00	0.00E+00	4.75E+00
		I-131	<9.63E+00	0.00E+00	9.63E+00



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Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 466184	Sample Dates: 12/26/2017 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		Cs-134	<2.93E+00	0.00E+00	2.93E+00
		Cs-137	<3.87E+00	0.00E+00	3.87E+00
		BaLa-140	<1.12E+01	0.00E+00	1.12E+01
		Be-7	<4.37E+01	0.00E+00	4.37E+01
		K-40	4.65E+01	2.74E+01	3.09E+01
		H3DW	<-4.5E+01	0.00E+00	1.78E+02
Sample ID: 468752	Sample Dates: 1/22/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.78E+00	1.07E+00	1.52E+00
		Mn-54	<3.06E+00	0.00E+00	3.06E+00
		Co-58	<1.84E+00	0.00E+00	1.84E+00
		Fe-59	<6.65E+00	0.00E+00	6.65E+00
		Co-60	<2.74E+00	0.00E+00	2.74E+00
		Zn-65	<6.57E+00	0.00E+00	6.57E+00
		Zr-95	<5.29E+00	0.00E+00	5.29E+00
		Nb-95	<3.38E+00	0.00E+00	3.38E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<3.13E+00	0.00E+00	3.13E+00
		Cs-137	<2.96E+00	0.00E+00	2.96E+00
		BaLa-140	<7.63E+00	0.00E+00	7.63E+00
		Be-7	<2.74E+01	0.00E+00	2.74E+01
		K-40	9.14E+01	3.03E+01	2.81E+01
H3DW	<-2.4E+00	0.00E+00	1.85E+02		
Sample ID: 471708	Sample Dates: 2/19/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.92E+00	8.76E-01	1.22E+00
		Mn-54	<3.38E+00	0.00E+00	3.38E+00
		Co-58	<3.76E+00	0.00E+00	3.76E+00
		Fe-59	<1.01E+01	0.00E+00	1.01E+01
		Co-60	<4.22E+00	0.00E+00	4.22E+00
		Zn-65	<8.35E+00	0.00E+00	8.35E+00
		Zr-95	<7.10E+00	0.00E+00	7.10E+00
		Nb-95	<5.23E+00	0.00E+00	5.23E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<4.22E+00	0.00E+00	4.22E+00
		Cs-137	<3.87E+00	0.00E+00	3.87E+00
		BaLa-140	<8.39E+00	0.00E+00	8.39E+00
		Be-7	<4.21E+01	0.00E+00	4.21E+01
		K-40	4.46E+01	2.41E+01	8.63E+00
H3DW	<-1.3E+02	0.00E+00	1.91E+02		
Sample ID: 473626	Sample Dates: 3/19/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.53E+00	9.54E-01	1.38E+00
		Mn-54	<2.57E+00	0.00E+00	2.57E+00
		Co-58	<2.76E+00	0.00E+00	2.76E+00
		Fe-59	<6.82E+00	0.00E+00	6.82E+00
		Co-60	<3.04E+00	0.00E+00	3.04E+00
		Zn-65	<5.87E+00	0.00E+00	5.87E+00
		Zr-95	<6.05E+00	0.00E+00	6.05E+00
		Nb-95	<3.84E+00	0.00E+00	3.84E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<3.32E+00	0.00E+00	3.32E+00
		Cs-137	<3.11E+00	0.00E+00	3.11E+00
		BaLa-140	<5.48E+00	0.00E+00	5.48E+00
		Be-7	<2.77E+01	0.00E+00	2.77E+01
		K-40	<5.47E+01	0.00E+00	5.47E+01
H3DW	<-7.3E+01	0.00E+00	1.74E+02		
Sample ID: 475207	Sample Dates: 4/16/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.48E+00	9.95E-01	1.55E+00
		Mn-54	<2.70E+00	0.00E+00	2.70E+00
		Co-58	<2.66E+00	0.00E+00	2.66E+00
		Fe-59	<7.34E+00	0.00E+00	7.34E+00
		Co-60	<2.95E+00	0.00E+00	2.95E+00
		Zn-65	<4.57E+00	0.00E+00	4.57E+00
		Zr-95	<3.83E+00	0.00E+00	3.83E+00
		Nb-95	<3.60E+00	0.00E+00	3.60E+00

HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 475207	Sample Dates: 4/16/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<2.46E+00	0.00E+00	2.46E+00
		Cs-137	<2.24E+00	0.00E+00	2.24E+00
		BaLa-140	<5.46E+00	0.00E+00	5.46E+00
		Be-7	<2.41E+01	0.00E+00	2.41E+01
		K-40	8.55E+01	2.92E+01	3.48E+01
		H3DW	<3.76E+01	0.00E+00	1.93E+02
Sample ID: 478099	Sample Dates: 5/14/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.99E+00	8.92E-01	1.33E+00
		Mn-54	<2.70E+00	0.00E+00	2.70E+00
		Co-58	<3.31E+00	0.00E+00	3.31E+00
		Fe-59	<7.62E+00	0.00E+00	7.62E+00
		Co-60	<3.03E+00	0.00E+00	3.03E+00
		Zn-65	<5.59E+00	0.00E+00	5.59E+00
		Zr-95	<5.69E+00	0.00E+00	5.69E+00
		Nb-95	<4.03E+00	0.00E+00	4.03E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<3.20E+00	0.00E+00	3.20E+00
		Cs-137	<2.52E+00	0.00E+00	2.52E+00
		BaLa-140	<6.45E+00	0.00E+00	6.45E+00
		Be-7	<2.85E+01	0.00E+00	2.85E+01
		K-40	6.06E+01	3.18E+01	4.31E+01
		H3DW	<4.96E+01	0.00E+00	1.89E+02
Sample ID: 479873	Sample Dates: 6/11/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.17E+00	1.10E+00	1.69E+00
		Mn-54	<2.27E+00	0.00E+00	2.27E+00
		Co-58	<2.70E+00	0.00E+00	2.70E+00
		Fe-59	<7.10E+00	0.00E+00	7.10E+00
		Co-60	<3.21E+00	0.00E+00	3.21E+00
		Zn-65	<5.93E+00	0.00E+00	5.93E+00
		Zr-95	<5.06E+00	0.00E+00	5.06E+00
		Nb-95	<3.68E+00	0.00E+00	3.68E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<2.98E+00	0.00E+00	2.98E+00
		Cs-137	<2.48E+00	0.00E+00	2.48E+00
		BaLa-140	<9.60E+00	0.00E+00	9.60E+00
		Be-7	<2.70E+01	0.00E+00	2.70E+01
		K-40	<4.39E+01	0.00E+00	4.39E+01
		H3DW	<1.78E+01	0.00E+00	1.81E+02
Sample ID: 481952	Sample Dates: 7/9/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.51E+00	1.15E+00	1.84E+00
		Mn-54	<2.28E+00	0.00E+00	2.28E+00
		Co-58	<2.44E+00	0.00E+00	2.44E+00
		Fe-59	<4.25E+00	0.00E+00	4.25E+00
		Co-60	<2.39E+00	0.00E+00	2.39E+00
		Zn-65	<4.60E+00	0.00E+00	4.60E+00
		Zr-95	<3.94E+00	0.00E+00	3.94E+00
		Nb-95	<3.01E+00	0.00E+00	3.01E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<2.42E+00	0.00E+00	2.42E+00
		Cs-137	<1.97E+00	0.00E+00	1.97E+00
		BaLa-140	<8.32E+00	0.00E+00	8.32E+00
		Be-7	<2.69E+01	0.00E+00	2.69E+01
		K-40	3.14E+01	2.19E+01	3.29E+01
		H3DW	<1.67E+01	0.00E+00	1.88E+02
Sample ID: 484009	Sample Dates: 8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.63E+00	8.96E-01	1.21E+00
		Mn-54	<3.14E+00	0.00E+00	3.14E+00
		Co-58	<4.01E+00	0.00E+00	4.01E+00
		Fe-59	<8.07E+00	0.00E+00	8.07E+00
		Co-60	<2.79E+00	0.00E+00	2.79E+00
		Zn-65	<3.98E+00	0.00E+00	3.98E+00
		Zr-95	<5.45E+00	0.00E+00	5.45E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 484009	Sample Dates: 8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<4.66E+00	0.00E+00	4.66E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.61E+00	0.00E+00	3.61E+00
		Cs-137	<3.04E+00	0.00E+00	3.04E+00
		BaLa-140	<1.11E+01	0.00E+00	1.11E+01
		Be-7	<2.75E+01	0.00E+00	2.75E+01
		K-40	<5.41E+01	0.00E+00	5.41E+01
		H3DW	<3.89E+01	0.00E+00	1.92E+02
Sample ID: 485254	Sample Dates: 9/4/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.09E+00	1.05E+00	1.59E+00
		Mn-54	<3.14E+00	0.00E+00	3.14E+00
		Co-58	<2.98E+00	0.00E+00	2.98E+00
		Fe-59	<7.72E+00	0.00E+00	7.72E+00
		Co-60	<3.05E+00	0.00E+00	3.05E+00
		Zn-65	<6.62E+00	0.00E+00	6.62E+00
		Zr-95	<3.80E+00	0.00E+00	3.80E+00
		Nb-95	<3.34E+00	0.00E+00	3.34E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<3.24E+00	0.00E+00	3.24E+00
		Cs-137	<3.75E+00	0.00E+00	3.75E+00
		BaLa-140	<1.08E+01	0.00E+00	1.08E+01
		Be-7	<2.95E+01	0.00E+00	2.95E+01
		K-40	<5.76E+01	0.00E+00	5.76E+01
		H3DW	<-7.1E+00	0.00E+00	1.95E+02
Sample ID: 488465	Sample Dates: 10/1/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.18E+00	9.60E-01	1.43E+00
		Mn-54	<2.90E+00	0.00E+00	2.90E+00
		Co-58	<2.96E+00	0.00E+00	2.96E+00
		Fe-59	<4.61E+00	0.00E+00	4.61E+00
		Co-60	<2.50E+00	0.00E+00	2.50E+00
		Zn-65	<5.18E+00	0.00E+00	5.18E+00
		Zr-95	<5.08E+00	0.00E+00	5.08E+00
		Nb-95	<3.23E+00	0.00E+00	3.23E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<2.76E+00	0.00E+00	2.76E+00
		Cs-137	<2.32E+00	0.00E+00	2.32E+00
		BaLa-140	<7.48E+00	0.00E+00	7.48E+00
		Be-7	<2.83E+01	0.00E+00	2.83E+01
		K-40	3.39E+01	3.28E+01	5.22E+01
		H3DW	<4.05E+01	0.00E+00	1.90E+02
Sample ID: 490146	Sample Dates: 10/29/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.43E+00	9.43E-01	1.37E+00
		Mn-54	<2.89E+00	0.00E+00	2.89E+00
		Co-58	<3.07E+00	0.00E+00	3.07E+00
		Fe-59	<7.31E+00	0.00E+00	7.31E+00
		Co-60	<2.90E+00	0.00E+00	2.90E+00
		Zn-65	<4.90E+00	0.00E+00	4.90E+00
		Zr-95	<5.44E+00	0.00E+00	5.44E+00
		Nb-95	<3.60E+00	0.00E+00	3.60E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<2.76E+00	0.00E+00	2.76E+00
		Cs-137	<3.42E+00	0.00E+00	3.42E+00
		BaLa-140	<6.63E+00	0.00E+00	6.63E+00
		Be-7	<2.60E+01	0.00E+00	2.60E+01
		K-40	5.98E+01	2.80E+01	3.13E+01
		H3DW	<-2.4E+00	0.00E+00	1.88E+02
Sample ID: 491741	Sample Dates: 11/26/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.34E+00	8.39E-01	1.29E+00
		Mn-54	<1.00E+00	0.00E+00	1.00E+00
		Co-58	<1.12E+00	0.00E+00	1.12E+00
		Fe-59	<2.44E+00	0.00E+00	2.44E+00
		Co-60	<9.91E-01	0.00E+00	9.91E-01
		Zn-65	<1.96E+00	0.00E+00	1.96E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 46 [INDICATOR - SSE @ 17.2 miles]

Sample ID:	491741	Sample Dates:	11/26/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Zr-95	<2.19E+00	0.00E+00	2.19E+00
				Nb-95	<1.76E+00	0.00E+00	1.76E+00
				I-131	<9.74E+00	0.00E+00	9.74E+00
				Cs-134	<1.11E+00	0.00E+00	1.11E+00
				Cs-137	<9.11E-01	0.00E+00	9.11E-01
				BaLa-140	<3.66E+00	0.00E+00	3.66E+00
				Be-7	<1.09E+01	0.00E+00	1.09E+01
				K-40	6.96E+01	1.24E+01	1.30E+01
				H3DW	<-6.9E+01	0.00E+00	1.94E+02

Sample Point 51 [INDICATOR - -- @ 0 miles]

Sample ID:	466970	Sample Dates:	12/26/2017 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.62E+00	1.05E+00	1.50E+00
				Mn-54	<2.76E+00	0.00E+00	2.76E+00
				Co-58	<3.70E+00	0.00E+00	3.70E+00
				Fe-59	<8.78E+00	0.00E+00	8.78E+00
				Co-60	<2.62E+00	0.00E+00	2.62E+00
				Zn-65	<5.59E+00	0.00E+00	5.59E+00
				Zr-95	<6.88E+00	0.00E+00	6.88E+00
				Nb-95	<4.72E+00	0.00E+00	4.72E+00
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<4.56E+00	0.00E+00	4.56E+00
				Cs-137	<3.24E+00	0.00E+00	3.24E+00
				BaLa-140	<9.08E+00	0.00E+00	9.08E+00
				Be-7	<2.59E+01	0.00E+00	2.59E+01
				K-40	<5.96E+01	0.00E+00	5.96E+01
				H3DW	6.18E+03	2.39E+02	1.77E+02

Sample ID:	468753	Sample Dates:	1/22/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.46E+00	9.37E-01	1.27E+00
				Mn-54	<3.13E+00	0.00E+00	3.13E+00
				Co-58	<3.79E+00	0.00E+00	3.79E+00
				Fe-59	<6.38E+00	0.00E+00	6.38E+00
				Co-60	<2.83E+00	0.00E+00	2.83E+00
				Zn-65	<5.88E+00	0.00E+00	5.88E+00
				Zr-95	<5.64E+00	0.00E+00	5.64E+00
				Nb-95	<2.87E+00	0.00E+00	2.87E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<2.91E+00	0.00E+00	2.91E+00
				Cs-137	<3.11E+00	0.00E+00	3.11E+00
				BaLa-140	<5.39E+00	0.00E+00	5.39E+00
				Be-7	<2.74E+01	0.00E+00	2.74E+01
				K-40	<5.16E+01	0.00E+00	5.16E+01
				H3DW	3.40E+03	1.93E+02	1.86E+02

Sample ID:	471709	Sample Dates:	2/19/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.88E+00	8.33E-01	1.15E+00
				Mn-54	<2.64E+00	0.00E+00	2.64E+00
				Co-58	<3.01E+00	0.00E+00	3.01E+00
				Fe-59	<6.51E+00	0.00E+00	6.51E+00
				Co-60	<2.63E+00	0.00E+00	2.63E+00
				Zn-65	<6.49E+00	0.00E+00	6.49E+00
				Zr-95	<6.19E+00	0.00E+00	6.19E+00
				Nb-95	<3.75E+00	0.00E+00	3.75E+00
				I-131	<1.13E+01	0.00E+00	1.13E+01
				Cs-134	<3.01E+00	0.00E+00	3.01E+00
				Cs-137	<2.78E+00	0.00E+00	2.78E+00
				BaLa-140	<6.80E+00	0.00E+00	6.80E+00
				Be-7	<2.05E+01	0.00E+00	2.05E+01
				K-40	3.23E+01	2.56E+01	3.87E+01
				H3DW	2.53E+03	1.77E+02	1.91E+02

Sample ID:	473627	Sample Dates:	3/19/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.85E+00	9.30E-01	1.32E+00
				Mn-54	<2.48E+00	0.00E+00	2.48E+00
				Co-58	<4.18E+00	0.00E+00	4.18E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [INDICATOR - -- @ 0 miles]

Sample ID: 473627	Sample Dates: 3/19/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		Fe-59	<1.06E+01	0.00E+00	1.06E+01
		Co-60	<5.05E+00	0.00E+00	5.05E+00
		Zn-65	<8.64E+00	0.00E+00	8.64E+00
		Zr-95	<7.41E+00	0.00E+00	7.41E+00
		Nb-95	<4.99E+00	0.00E+00	4.99E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<5.16E+00	0.00E+00	5.16E+00
		Cs-137	<5.21E+00	0.00E+00	5.21E+00
		BaLa-140	<1.18E+01	0.00E+00	1.18E+01
		Be-7	<3.13E+01	0.00E+00	3.13E+01
		K-40	<5.01E+01	0.00E+00	5.01E+01
		H3DW	2.40E+03	1.68E+02	1.74E+02
Sample ID: 475208	Sample Dates: 4/16/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.61E+00	9.64E-01	1.48E+00
		Mn-54	<2.95E+00	0.00E+00	2.95E+00
		Co-58	<3.47E+00	0.00E+00	3.47E+00
		Fe-59	<5.54E+00	0.00E+00	5.54E+00
		Co-60	<2.41E+00	0.00E+00	2.41E+00
		Zn-65	<5.93E+00	0.00E+00	5.93E+00
		Zr-95	<4.13E+00	0.00E+00	4.13E+00
		Nb-95	<2.30E+00	0.00E+00	2.30E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<3.61E+00	0.00E+00	3.61E+00
		Cs-137	<2.78E+00	0.00E+00	2.78E+00
		BaLa-140	<7.51E+00	0.00E+00	7.51E+00
		Be-7	<2.39E+01	0.00E+00	2.39E+01
		K-40	<4.90E+01	0.00E+00	4.90E+01
		H3DW	2.53E+03	1.78E+02	1.93E+02
Sample ID: 478100	Sample Dates: 5/14/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.61E+00	8.42E-01	1.27E+00
		Mn-54	<2.72E+00	0.00E+00	2.72E+00
		Co-58	<2.49E+00	0.00E+00	2.49E+00
		Fe-59	<7.17E+00	0.00E+00	7.17E+00
		Co-60	<2.13E+00	0.00E+00	2.13E+00
		Zn-65	<8.49E+00	0.00E+00	8.49E+00
		Zr-95	<6.78E+00	0.00E+00	6.78E+00
		Nb-95	<3.87E+00	0.00E+00	3.87E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<2.28E+00	0.00E+00	2.28E+00
		Cs-137	<3.23E+00	0.00E+00	3.23E+00
		BaLa-140	<8.26E+00	0.00E+00	8.26E+00
		Be-7	<3.13E+01	0.00E+00	3.13E+01
		K-40	3.63E+01	2.79E+01	4.07E+01
		H3DW	3.87E+03	2.03E+02	1.89E+02
Sample ID: 479874	Sample Dates: 6/11/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.58E+00	1.03E+00	1.61E+00
		Mn-54	<3.76E+00	0.00E+00	3.76E+00
		Co-58	<3.65E+00	0.00E+00	3.65E+00
		Fe-59	<9.15E+00	0.00E+00	9.15E+00
		Co-60	<3.65E+00	0.00E+00	3.65E+00
		Zn-65	<7.21E+00	0.00E+00	7.21E+00
		Zr-95	<6.13E+00	0.00E+00	6.13E+00
		Nb-95	<5.37E+00	0.00E+00	5.37E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<4.62E+00	0.00E+00	4.62E+00
		Cs-137	<4.03E+00	0.00E+00	4.03E+00
		BaLa-140	<7.23E+00	0.00E+00	7.23E+00
		Be-7	<2.42E+01	0.00E+00	2.42E+01
		K-40	<6.19E+01	0.00E+00	6.19E+01
		H3DW	3.73E+03	1.94E+02	1.81E+02
Sample ID: 481953	Sample Dates: 7/9/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.98E+00	1.12E+00	1.75E+00
		Mn-54	<2.41E+00	0.00E+00	2.41E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [INDICATOR - -- @ 0 miles]

Sample ID: 481953	Sample Dates: 7/9/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<2.55E+00	0.00E+00	2.55E+00
		Fe-59	<6.40E+00	0.00E+00	6.40E+00
		Co-60	<1.68E+00	0.00E+00	1.68E+00
		Zn-65	<5.07E+00	0.00E+00	5.07E+00
		Zr-95	<4.94E+00	0.00E+00	4.94E+00
		Nb-95	<3.52E+00	0.00E+00	3.52E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<2.70E+00	0.00E+00	2.70E+00
		Cs-137	<2.26E+00	0.00E+00	2.26E+00
		BaLa-140	<6.99E+00	0.00E+00	6.99E+00
		Be-7	<2.23E+01	0.00E+00	2.23E+01
		K-40	6.80E+01	2.69E+01	3.42E+01
		H3DW	3.92E+03	2.05E+02	1.89E+02
Sample ID: 484010	Sample Dates: 8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.34E+00	8.17E-01	1.16E+00
		Mn-54	<2.48E+00	0.00E+00	2.48E+00
		Co-58	<3.18E+00	0.00E+00	3.18E+00
		Fe-59	<5.37E+00	0.00E+00	5.37E+00
		Co-60	<2.91E+00	0.00E+00	2.91E+00
		Zn-65	<4.97E+00	0.00E+00	4.97E+00
		Zr-95	<5.52E+00	0.00E+00	5.52E+00
		Nb-95	<3.36E+00	0.00E+00	3.36E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<3.41E+00	0.00E+00	3.41E+00
		Cs-137	<2.81E+00	0.00E+00	2.81E+00
		BaLa-140	<7.65E+00	0.00E+00	7.65E+00
		Be-7	<2.27E+01	0.00E+00	2.27E+01
		K-40	7.28E+01	2.85E+01	3.43E+01
		H3DW	3.16E+03	1.92E+02	1.92E+02
Sample ID: 485255	Sample Dates: 9/4/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.24E+00	1.02E+00	1.54E+00
		Mn-54	<2.50E+00	0.00E+00	2.50E+00
		Co-58	<3.02E+00	0.00E+00	3.02E+00
		Fe-59	<4.89E+00	0.00E+00	4.89E+00
		Co-60	<3.01E+00	0.00E+00	3.01E+00
		Zn-65	<5.33E+00	0.00E+00	5.33E+00
		Zr-95	<5.21E+00	0.00E+00	5.21E+00
		Nb-95	<3.10E+00	0.00E+00	3.10E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<2.69E+00	0.00E+00	2.69E+00
		Cs-137	<1.92E+00	0.00E+00	1.92E+00
		BaLa-140	<6.29E+00	0.00E+00	6.29E+00
		Be-7	<2.23E+01	0.00E+00	2.23E+01
		K-40	<4.11E+01	0.00E+00	4.11E+01
		H3DW	2.68E+03	1.82E+02	1.95E+02
Sample ID: 488466	Sample Dates: 10/1/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.39E+00	9.51E-01	1.40E+00
		Mn-54	<2.72E+00	0.00E+00	2.72E+00
		Co-58	<3.41E+00	0.00E+00	3.41E+00
		Fe-59	<5.62E+00	0.00E+00	5.62E+00
		Co-60	<2.84E+00	0.00E+00	2.84E+00
		Zn-65	<6.66E+00	0.00E+00	6.66E+00
		Zr-95	<5.83E+00	0.00E+00	5.83E+00
		Nb-95	<4.09E+00	0.00E+00	4.09E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<3.96E+00	0.00E+00	3.96E+00
		Cs-137	<2.51E+00	0.00E+00	2.51E+00
		BaLa-140	<8.42E+00	0.00E+00	8.42E+00
		Be-7	<2.13E+01	0.00E+00	2.13E+01
		K-40	<4.31E+01	0.00E+00	4.31E+01
		H3DW	2.49E+03	1.77E+02	1.91E+02
Sample ID: 490147	Sample Dates: 10/29/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.25E+00	9.73E-01	1.36E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 51 [INDICATOR - -- @ 0 miles]

Sample ID: 490147 Sample Dates: 10/29/2018 - 11/26/2018

Nuclide	Activity	2 Sigma Error	MDA
Mn-54	<2.85E+00	0.00E+00	2.85E+00
Co-58	<3.61E+00	0.00E+00	3.61E+00
Fe-59	<7.08E+00	0.00E+00	7.08E+00
Co-60	<2.22E+00	0.00E+00	2.22E+00
Zn-65	<6.61E+00	0.00E+00	6.61E+00
Zr-95	<6.15E+00	0.00E+00	6.15E+00
Nb-95	<3.35E+00	0.00E+00	3.35E+00
I-131	<1.19E+01	0.00E+00	1.19E+01
Cs-134	<3.61E+00	0.00E+00	3.61E+00
Cs-137	<3.16E+00	0.00E+00	3.16E+00
BaLa-140	<9.24E+00	0.00E+00	9.24E+00
Be-7	<3.07E+01	0.00E+00	3.07E+01
K-40	<4.29E+01	0.00E+00	4.29E+01
H3DW	2.78E+03	1.81E+02	1.87E+02

Sample ID: 491742 Sample Dates: 11/26/2018 - 12/26/2018

Nuclide	Activity	2 Sigma Error	MDA
Beta	2.67E+00	8.48E-01	1.28E+00
Mn-54	<1.30E+00	0.00E+00	1.30E+00
Co-58	<2.04E+00	0.00E+00	2.04E+00
Fe-59	<4.06E+00	0.00E+00	4.06E+00
Co-60	<1.39E+00	0.00E+00	1.39E+00
Zn-65	<2.97E+00	0.00E+00	2.97E+00
Zr-95	<2.74E+00	0.00E+00	2.74E+00
Nb-95	<2.07E+00	0.00E+00	2.07E+00
I-131	<1.09E+01	0.00E+00	1.09E+01
Cs-134	<1.81E+00	0.00E+00	1.81E+00
Cs-137	<1.48E+00	0.00E+00	1.48E+00
BaLa-140	<5.70E+00	0.00E+00	5.70E+00
Be-7	<1.55E+01	0.00E+00	1.55E+01
K-40	2.70E+01	1.25E+01	1.66E+01
H3DW	2.87E+03	1.87E+02	1.98E+02

Sample Point 58 [CONTROL - SW @ 8.47 miles]

Sample ID: 466185 Sample Dates: 12/26/2017 - 1/22/2018

Nuclide	Activity	2 Sigma Error	MDA
Beta	4.91E+00	1.11E+00	1.58E+00
Mn-54	<4.00E+00	0.00E+00	4.00E+00
Co-58	<4.00E+00	0.00E+00	4.00E+00
Fe-59	<7.39E+00	0.00E+00	7.39E+00
Co-60	<2.88E+00	0.00E+00	2.88E+00
Zn-65	<8.18E+00	0.00E+00	8.19E+00
Zr-95	<7.61E+00	0.00E+00	7.61E+00
Nb-95	<5.25E+00	0.00E+00	5.25E+00
I-131	<1.15E+01	0.00E+00	1.15E+01
Cs-134	<3.32E+00	0.00E+00	3.32E+00
Cs-137	<4.22E+00	0.00E+00	4.22E+00
BaLa-140	<7.82E+00	0.00E+00	7.82E+00
Be-7	<3.54E+01	0.00E+00	3.54E+01
K-40	8.82E+01	4.14E+01	5.15E+01
H3DW	<-3.3E+01	0.00E+00	1.78E+02

Sample ID: 468754 Sample Dates: 1/22/2018 - 2/19/2018

Nuclide	Activity	2 Sigma Error	MDA
Beta	6.57E+00	1.07E+00	1.33E+00
Mn-54	<2.83E+00	0.00E+00	2.83E+00
Co-58	<3.29E+00	0.00E+00	3.29E+00
Fe-59	<6.64E+00	0.00E+00	6.64E+00
Co-60	<3.14E+00	0.00E+00	3.14E+00
Zn-65	<5.44E+00	0.00E+00	5.44E+00
Zr-95	<5.62E+00	0.00E+00	5.62E+00
Nb-95	<3.86E+00	0.00E+00	3.86E+00
I-131	<1.02E+01	0.00E+00	1.02E+01
Cs-134	<3.26E+00	0.00E+00	3.26E+00
Cs-137	<2.63E+00	0.00E+00	2.63E+00
BaLa-140	<7.32E+00	0.00E+00	7.32E+00
Be-7	<2.24E+01	0.00E+00	2.24E+01
K-40	4.02E+01	2.95E+01	4.34E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 58 [CONTROL - SW @ 8.47 miles]

Sample ID: 468754	Sample Dates: 1/22/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3DW	<-3.1E+01	0.00E+00	1.85E+02
Sample ID: 471710	Sample Dates: 2/19/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.66E+00	9.06E-01	1.22E+00
		Mn-54	<2.85E+00	0.00E+00	2.85E+00
		Co-58	<3.05E+00	0.00E+00	3.05E+00
		Fe-59	<6.00E+00	0.00E+00	6.00E+00
		Co-60	<2.42E+00	0.00E+00	2.42E+00
		Zn-65	<5.59E+00	0.00E+00	5.59E+00
		Zr-95	<5.82E+00	0.00E+00	5.82E+00
		Nb-95	<3.81E+00	0.00E+00	3.81E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<3.38E+00	0.00E+00	3.38E+00
		Cs-137	<2.95E+00	0.00E+00	2.95E+00
		BaLa-140	<8.90E+00	0.00E+00	8.90E+00
		Be-7	<3.17E+01	0.00E+00	3.17E+01
		K-40	1.08E+02	3.64E+01	3.81E+01
		H3DW	<-1.3E+02	0.00E+00	1.91E+02
Sample ID: 473628	Sample Dates: 3/19/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.87E+00	9.64E-01	1.37E+00
		Mn-54	<3.40E+00	0.00E+00	3.40E+00
		Co-58	<3.23E+00	0.00E+00	3.23E+00
		Fe-59	<6.02E+00	0.00E+00	6.02E+00
		Co-60	<3.49E+00	0.00E+00	3.49E+00
		Zn-65	<7.77E+00	0.00E+00	7.77E+00
		Zr-95	<6.23E+00	0.00E+00	6.23E+00
		Nb-95	<4.38E+00	0.00E+00	4.38E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<3.07E+00	0.00E+00	3.07E+00
		Cs-137	<3.18E+00	0.00E+00	3.18E+00
		BaLa-140	<7.71E+00	0.00E+00	7.71E+00
		Be-7	<2.74E+01	0.00E+00	2.74E+01
		K-40	2.14E+01	2.48E+01	3.98E+01
		H3DW	<3.07E+01	0.00E+00	1.74E+02
Sample ID: 475209	Sample Dates: 4/16/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.93E+00	1.01E+00	1.54E+00
		Mn-54	<2.52E+00	0.00E+00	2.52E+00
		Co-58	<3.06E+00	0.00E+00	3.06E+00
		Fe-59	<6.15E+00	0.00E+00	6.15E+00
		Co-60	<2.45E+00	0.00E+00	2.45E+00
		Zn-65	<4.77E+00	0.00E+00	4.77E+00
		Zr-95	<5.15E+00	0.00E+00	5.15E+00
		Nb-95	<2.56E+00	0.00E+00	2.56E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<2.35E+00	0.00E+00	2.35E+00
		Cs-137	<2.58E+00	0.00E+00	2.58E+00
		BaLa-140	<7.17E+00	0.00E+00	7.17E+00
		Be-7	<2.83E+01	0.00E+00	2.83E+01
		K-40	4.52E+01	2.53E+01	3.44E+01
		H3DW	<-3.8E+01	0.00E+00	1.93E+02
Sample ID: 478101	Sample Dates: 5/14/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.23E+00	8.90E-01	1.31E+00
		Mn-54	<2.67E+00	0.00E+00	2.67E+00
		Co-58	<4.14E+00	0.00E+00	4.14E+00
		Fe-59	<8.61E+00	0.00E+00	8.61E+00
		Co-60	<4.98E+00	0.00E+00	4.98E+00
		Zn-65	<9.18E+00	0.00E+00	9.18E+00
		Zr-95	<8.87E+00	0.00E+00	8.87E+00
		Nb-95	<4.92E+00	0.00E+00	4.92E+00
		I-131	<1.12E+01	0.00E+00	1.12E+01
		Cs-134	<3.30E+00	0.00E+00	3.30E+00
		Cs-137	<3.60E+00	0.00E+00	3.60E+00
		BaLa-140	<2.50E+00	0.00E+00	2.50E+00
		Be-7	<3.77E+01	0.00E+00	3.77E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 58 [CONTROL - SW @ 8.47 miles]

Sample ID: 478101	Sample Dates: 5/14/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		K-40	<7.00E+01	0.00E+00	7.00E+01
		H3DW	<1.67E+01	0.00E+00	1.91E+02
Sample ID: 479875	Sample Dates: 6/11/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.35E+00	1.10E+00	1.68E+00
		Mn-54	<3.18E+00	0.00E+00	3.18E+00
		Co-58	<3.54E+00	0.00E+00	3.54E+00
		Fe-59	<6.55E+00	0.00E+00	6.55E+00
		Co-60	<4.24E+00	0.00E+00	4.24E+00
		Zn-65	<5.18E+00	0.00E+00	5.18E+00
		Zr-95	<4.17E+00	0.00E+00	4.17E+00
		Nb-95	<3.49E+00	0.00E+00	3.49E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<3.79E+00	0.00E+00	3.79E+00
		Cs-137	<3.09E+00	0.00E+00	3.09E+00
		BaLa-140	<7.88E+00	0.00E+00	7.88E+00
		Be-7	<2.85E+01	0.00E+00	2.85E+01
Sample ID: 481954	Sample Dates: 7/9/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.68E+00	1.15E+00	1.81E+00
		Mn-54	<1.46E+00	0.00E+00	1.46E+00
		Co-58	<1.74E+00	0.00E+00	1.74E+00
		Fe-59	<3.52E+00	0.00E+00	3.52E+00
		Co-60	<1.52E+00	0.00E+00	1.52E+00
		Zn-65	<3.14E+00	0.00E+00	3.14E+00
		Zr-95	<3.25E+00	0.00E+00	3.25E+00
		Nb-95	<2.52E+00	0.00E+00	2.52E+00
		I-131	<9.26E+00	0.00E+00	9.26E+00
		Cs-134	<1.95E+00	0.00E+00	1.95E+00
		Cs-137	<1.49E+00	0.00E+00	1.49E+00
		BaLa-140	<5.73E+00	0.00E+00	5.73E+00
		Be-7	<1.38E+01	0.00E+00	1.38E+01
Sample ID: 484011	Sample Dates: 8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.63E+00	8.94E-01	1.21E+00
		Mn-54	<3.15E+00	0.00E+00	3.15E+00
		Co-58	<3.51E+00	0.00E+00	3.51E+00
		Fe-59	<9.62E+00	0.00E+00	9.62E+00
		Co-60	<2.37E+00	0.00E+00	2.37E+00
		Zn-65	<5.51E+00	0.00E+00	5.51E+00
		Zr-95	<8.61E+00	0.00E+00	8.61E+00
		Nb-95	<5.27E+00	0.00E+00	5.27E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<4.22E+00	0.00E+00	4.22E+00
		Cs-137	<3.71E+00	0.00E+00	3.71E+00
		BaLa-140	<1.11E+01	0.00E+00	1.11E+01
		Be-7	<3.55E+01	0.00E+00	3.55E+01
Sample ID: 485256	Sample Dates: 9/4/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	2.62E+00	1.02E+00	1.58E+00
		Mn-54	<3.70E+00	0.00E+00	3.70E+00
		Co-58	<3.47E+00	0.00E+00	3.47E+00
		Fe-59	<7.07E+00	0.00E+00	7.07E+00
		Co-60	<2.84E+00	0.00E+00	2.84E+00
		Zn-65	<5.97E+00	0.00E+00	5.97E+00
		Zr-95	<6.15E+00	0.00E+00	6.15E+00
		Nb-95	<4.47E+00	0.00E+00	4.47E+00
		I-131	<1.12E+01	0.00E+00	1.12E+01
		Cs-134	<1.92E+00	0.00E+00	1.92E+00
		Cs-137	<3.82E+00	0.00E+00	3.82E+00
		BaLa-140	<7.07E+00	0.00E+00	7.07E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: DRINKING WATER Concentration (Activity): pCi/l

Sample Point 58 [CONTROL - SW @ 8.47 miles]

Sample ID:	485256	Sample Dates:	9/4/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<2.87E+01	0.00E+00	2.87E+01
				K-40	5.49E+01	3.47E+01	4.97E+01
				H3DW	<-1.4E+02	0.00E+00	1.98E+02

Sample ID:	488467	Sample Dates:	10/1/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.19E+00	9.58E-01	1.42E+00
				Mn-54	<3.76E+00	0.00E+00	3.76E+00
				Co-58	<3.35E+00	0.00E+00	3.35E+00
				Fe-59	<9.93E+00	0.00E+00	9.93E+00
				Co-60	<3.59E+00	0.00E+00	3.59E+00
				Zn-65	<9.25E+00	0.00E+00	9.25E+00
				Zr-95	<6.97E+00	0.00E+00	6.97E+00
				Nb-95	<4.70E+00	0.00E+00	4.70E+00
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<3.92E+00	0.00E+00	3.92E+00
				Cs-137	<3.19E+00	0.00E+00	3.19E+00
				BaLa-140	<1.11E+01	0.00E+00	1.11E+01
				Be-7	<3.56E+01	0.00E+00	3.56E+01
				K-40	<7.23E+01	0.00E+00	7.23E+01
				H3DW	<-8.4E+01	0.00E+00	1.91E+02

Sample ID:	490148	Sample Dates:	10/29/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.58E+00	9.45E-01	1.37E+00
				Mn-54	<2.61E+00	0.00E+00	2.61E+00
				Co-58	<2.54E+00	0.00E+00	2.54E+00
				Fe-59	<7.18E+00	0.00E+00	7.18E+00
				Co-60	<2.08E+00	0.00E+00	2.08E+00
				Zn-65	<5.92E+00	0.00E+00	5.92E+00
				Zr-95	<5.70E+00	0.00E+00	5.70E+00
				Nb-95	<4.31E+00	0.00E+00	4.31E+00
				I-131	<1.17E+01	0.00E+00	1.17E+01
				Cs-134	<3.40E+00	0.00E+00	3.40E+00
				Cs-137	<2.80E+00	0.00E+00	2.80E+00
				BaLa-140	<5.77E+00	0.00E+00	5.77E+00
				Be-7	<2.97E+01	0.00E+00	2.97E+01
				K-40	<4.80E+01	0.00E+00	4.80E+01
				H3DW	<-3.6E+01	0.00E+00	1.89E+02

Sample ID:	491743	Sample Dates:	11/26/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	1.65E+00	8.03E-01	1.28E+00
				Mn-54	<1.74E+00	0.00E+00	1.74E+00
				Co-58	<2.18E+00	0.00E+00	2.18E+00
				Fe-59	<3.80E+00	0.00E+00	3.80E+00
				Co-60	<1.49E+00	0.00E+00	1.49E+00
				Zn-65	<5.03E+00	0.00E+00	5.03E+00
				Zr-95	<3.47E+00	0.00E+00	3.47E+00
				Nb-95	<2.71E+00	0.00E+00	2.71E+00
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<1.98E+00	0.00E+00	1.98E+00
				Cs-137	<1.98E+00	0.00E+00	1.98E+00
				BaLa-140	<5.58E+00	0.00E+00	5.58E+00
				Be-7	<1.79E+01	0.00E+00	1.79E+01
				K-40	3.46E+01	2.00E+01	2.96E+01
				H3DW	<-2.6E+01	0.00E+00	1.96E+02

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 44 [INDICATOR - -- @ 0 miles]

Sample ID:	472415	Sample Dates:	4/19/2018 - 4/19/2018	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.74E+01	0.00E+00	3.74E+01
					Co-58	<2.98E+01	0.00E+00	2.98E+01
					Fe-59	<9.73E+01	0.00E+00	9.73E+01
					Co-60	<4.38E+01	0.00E+00	4.38E+01
					Zn-65	<7.92E+01	0.00E+00	7.92E+01
					Nb-95	<5.15E+01	0.00E+00	5.15E+01
					I-131	<1.27E+02	0.00E+00	1.27E+02



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Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 44 [INDICATOR - -- @ 0 miles]

Sample ID: 472415	Sample Dates: 4/19/2018 - 4/19/2018	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Cs-134	<4.42E+01	0.00E+00	4.42E+01
			Cs-137	<4.22E+01	0.00E+00	4.22E+01
			Be-7	<3.55E+02	0.00E+00	3.55E+02
			K-40	2.78E+03	7.79E+02	6.33E+02
			Ag-110M	<3.25E+01	0.00E+00	3.25E+01
			Sb-122	<4.20E+03	0.00E+00	4.20E+03
			Sb-125	<5.16E+01	0.00E+00	5.16E+01
Sample ID: 472416	Sample Dates: 4/19/2018 - 4/19/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.61E+01	0.00E+00	3.61E+01
			Co-58	<4.40E+01	0.00E+00	4.40E+01
			Fe-59	<9.45E+01	0.00E+00	9.45E+01
			Co-60	<4.68E+01	0.00E+00	4.68E+01
			Zn-65	<8.50E+01	0.00E+00	8.50E+01
			Nb-95	<5.69E+01	0.00E+00	5.69E+01
			I-131	<1.45E+02	0.00E+00	1.45E+02
			Cs-134	<4.80E+01	0.00E+00	4.80E+01
			Cs-137	<3.63E+01	0.00E+00	3.63E+01
			Be-7	<2.93E+02	0.00E+00	2.93E+02
			K-40	3.42E+03	8.31E+02	5.64E+02
			Ag-110M	<2.88E+01	0.00E+00	2.88E+01
			Sb-122	<5.48E+03	0.00E+00	5.48E+03
			Sb-125	<8.05E+01	0.00E+00	8.05E+01
Sample ID: 472417	Sample Dates: 4/19/2018 - 4/20/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.67E+01	0.00E+00	2.67E+01
			Co-58	<3.49E+01	0.00E+00	3.49E+01
			Fe-59	<6.05E+01	0.00E+00	6.05E+01
			Co-60	<3.81E+01	0.00E+00	3.81E+01
			Zn-65	<1.05E+02	0.00E+00	1.05E+02
			Nb-95	<5.88E+01	0.00E+00	5.88E+01
			I-131	<1.24E+02	0.00E+00	1.24E+02
			Cs-134	<3.40E+01	0.00E+00	3.40E+01
			Cs-137	<1.98E+01	0.00E+00	1.98E+01
			Be-7	<3.05E+02	0.00E+00	3.05E+02
			K-40	2.98E+03	8.02E+02	6.14E+02
			Ag-110M	<2.69E+01	0.00E+00	2.69E+01
			Sb-122	<4.61E+03	0.00E+00	4.61E+03
			Sb-125	<7.91E+01	0.00E+00	7.91E+01
Sample ID: 485466	Sample Dates: 10/1/2018 - 10/1/2018	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<5.76E+01	0.00E+00	5.76E+01
			Co-58	<7.08E+01	0.00E+00	7.08E+01
			Fe-59	<1.52E+02	0.00E+00	1.52E+02
			Co-60	<7.05E+01	0.00E+00	7.05E+01
			Zn-65	<1.61E+02	0.00E+00	1.61E+02
			Nb-95	<3.98E+01	0.00E+00	3.98E+01
			I-131	<9.98E+01	0.00E+00	9.98E+01
			Cs-134	<6.42E+01	0.00E+00	6.42E+01
			Cs-137	<6.97E+01	0.00E+00	6.97E+01
			Be-7	<4.31E+02	0.00E+00	4.31E+02
			K-40	3.61E+03	1.08E+03	1.07E+03
			Ag-110M	<6.99E+01	0.00E+00	6.99E+01
			Sb-122	<9.70E+02	0.00E+00	9.70E+02
			Sb-125	<1.63E+02	0.00E+00	1.63E+02
Sample ID: 485467	Sample Dates: 10/1/2018 - 10/1/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.72E+01	0.00E+00	4.72E+01
			Co-58	<6.47E+01	0.00E+00	6.47E+01
			Fe-59	<8.86E+01	0.00E+00	8.86E+01
			Co-60	<7.01E+01	0.00E+00	7.01E+01
			Zn-65	<1.44E+02	0.00E+00	1.44E+02
			Nb-95	<6.46E+01	0.00E+00	6.46E+01
			I-131	<1.33E+02	0.00E+00	1.33E+02
			Cs-134	<6.81E+01	0.00E+00	6.81E+01
			Cs-137	<5.60E+01	0.00E+00	5.60E+01
			Be-7	<4.32E+02	0.00E+00	4.32E+02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 44 [INDICATOR - -- @ 0 miles]

Sample ID:	485467	Sample Dates:	10/1/2018 - 10/1/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					K-40	4.34E+03	1.07E+03	6.42E+02
					Ag-110M	<6.15E+01	0.00E+00	6.15E+01
					Sb-122	<8.50E+02	0.00E+00	8.50E+02
					Sb-125	<1.77E+02	0.00E+00	1.77E+02
Sample ID:	485468	Sample Dates:	10/1/2018 - 10/1/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<5.73E+01	0.00E+00	5.73E+01
					Co-58	<3.11E+01	0.00E+00	3.11E+01
					Fe-59	<1.11E+02	0.00E+00	1.11E+02
					Co-60	<6.24E+01	0.00E+00	6.24E+01
					Zn-65	<1.04E+02	0.00E+00	1.04E+02
					Nb-95	<4.97E+01	0.00E+00	4.97E+01
					I-131	<9.20E+01	0.00E+00	9.20E+01
					Cs-134	<5.87E+01	0.00E+00	5.87E+01
					Cs-137	<5.32E+01	0.00E+00	5.32E+01
					Be-7	<4.35E+02	0.00E+00	4.35E+02
					K-40	3.59E+03	9.41E+02	7.87E+02
					Ag-110M	<4.84E+01	0.00E+00	4.84E+01
					Sb-122	<4.80E+02	0.00E+00	4.80E+02
					Sb-125	<1.17E+02	0.00E+00	1.17E+02

Sample Point 45 [CONTROL - -- @ 0 miles]

Sample ID:	472418	Sample Dates:	4/20/2018 - 4/20/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<9.29E+00	0.00E+00	9.29E+00
					Co-58	<1.04E+01	0.00E+00	1.04E+01
					Fe-59	<9.02E+01	0.00E+00	9.02E+01
					Co-60	<3.61E+01	0.00E+00	3.61E+01
					Zn-65	<8.22E+01	0.00E+00	8.22E+01
					Nb-95	<6.17E+01	0.00E+00	6.17E+01
					I-131	<1.63E+02	0.00E+00	1.63E+02
					Cs-134	<2.77E+01	0.00E+00	2.77E+01
					Cs-137	<3.45E+01	0.00E+00	3.45E+01
					Be-7	<4.46E+02	0.00E+00	4.46E+02
					K-40	4.20E+03	1.03E+03	7.19E+02
					Ag-110M	<3.58E+01	0.00E+00	3.58E+01
					Sb-122	<3.81E+03	0.00E+00	3.81E+03
					Sb-125	<4.92E+01	0.00E+00	4.92E+01
Sample ID:	472419	Sample Dates:	4/20/2018 - 4/20/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.29E+01	0.00E+00	3.29E+01
					Co-58	<3.38E+01	0.00E+00	3.38E+01
					Fe-59	<5.23E+01	0.00E+00	5.23E+01
					Co-60	<3.86E+01	0.00E+00	3.86E+01
					Zn-65	<6.01E+01	0.00E+00	6.01E+01
					Nb-95	<2.97E+01	0.00E+00	2.97E+01
					I-131	<1.22E+02	0.00E+00	1.22E+02
					Cs-134	<2.96E+01	0.00E+00	2.96E+01
					Cs-137	<2.17E+01	0.00E+00	2.17E+01
					Be-7	<3.26E+02	0.00E+00	3.26E+02
					K-40	2.68E+03	6.82E+02	3.86E+02
					Ag-110M	<2.85E+01	0.00E+00	2.85E+01
					Sb-122	<3.27E+03	0.00E+00	3.27E+03
					Sb-125	<5.26E+01	0.00E+00	5.26E+01
Sample ID:	472420	Sample Dates:	4/20/2018 - 4/20/2018	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.63E+01	0.00E+00	3.63E+01
					Co-58	<2.28E+01	0.00E+00	2.28E+01
					Fe-59	<1.02E+02	0.00E+00	1.02E+02
					Co-60	<3.68E+01	0.00E+00	3.68E+01
					Zn-65	<6.63E+01	0.00E+00	6.63E+01
					Nb-95	<3.75E+01	0.00E+00	3.75E+01
					I-131	<1.13E+02	0.00E+00	1.13E+02
					Cs-134	<4.30E+01	0.00E+00	4.30E+01
					Cs-137	<3.11E+01	0.00E+00	3.11E+01
					Be-7	<2.20E+02	0.00E+00	2.20E+02
					K-40	3.41E+03	8.53E+02	6.52E+02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: FISH Concentration (Activity): pCi/kg wet

Sample Point 45 [CONTROL - -- @ 0 miles]

Sample ID: 472420	Sample Dates: 4/20/2018 - 4/20/2018	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Ag-110M	<3.39E+01	0.00E+00	3.39E+01
			Sb-122	<3.17E+03	0.00E+00	3.17E+03
			Sb-125	<8.11E+01	0.00E+00	8.11E+01
Sample ID: 485469	Sample Dates: 10/1/2018 - 10/1/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.98E+01	0.00E+00	4.98E+01
			Co-58	<5.13E+01	0.00E+00	5.13E+01
			Fe-59	<9.88E+01	0.00E+00	9.88E+01
			Co-60	<4.75E+01	0.00E+00	4.75E+01
			Zn-65	<1.46E+02	0.00E+00	1.46E+02
			Nb-95	<6.57E+01	0.00E+00	6.57E+01
			I-131	<1.21E+02	0.00E+00	1.21E+02
			Cs-134	<6.84E+01	0.00E+00	6.84E+01
			Cs-137	<6.21E+01	0.00E+00	6.21E+01
			Be-7	<5.58E+02	0.00E+00	5.58E+02
			K-40	4.78E+03	1.17E+03	9.60E+02
			Ag-110M	<5.66E+01	0.00E+00	5.66E+01
			Sb-122	<7.63E+02	0.00E+00	7.63E+02
			Sb-125	<1.77E+02	0.00E+00	1.77E+02
Sample ID: 485470	Sample Dates: 10/1/2018 - 10/1/2018	FREESWIM	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<5.61E+01	0.00E+00	5.61E+01
			Co-58	<6.54E+01	0.00E+00	6.54E+01
			Fe-59	<8.21E+01	0.00E+00	8.21E+01
			Co-60	<5.95E+01	0.00E+00	5.95E+01
			Zn-65	<1.16E+02	0.00E+00	1.16E+02
			Nb-95	<6.90E+01	0.00E+00	6.90E+01
			I-131	<1.01E+02	0.00E+00	1.01E+02
			Cs-134	<7.42E+01	0.00E+00	7.42E+01
			Cs-137	<5.95E+01	0.00E+00	5.95E+01
			Be-7	<5.05E+02	0.00E+00	5.05E+02
			K-40	4.67E+03	1.07E+03	5.86E+02
			Ag-110M	<5.18E+01	0.00E+00	5.18E+01
			Sb-122	<7.52E+02	0.00E+00	7.52E+02
			Sb-125	<1.26E+02	0.00E+00	1.26E+02
Sample ID: 485471	Sample Dates: 10/1/2018 - 10/1/2018	BOTMFEEDER	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.75E+01	0.00E+00	4.75E+01
			Co-58	<3.25E+01	0.00E+00	3.25E+01
			Fe-59	<9.99E+01	0.00E+00	9.99E+01
			Co-60	<4.76E+01	0.00E+00	4.76E+01
			Zn-65	<9.34E+01	0.00E+00	9.34E+01
			Nb-95	<4.79E+01	0.00E+00	4.79E+01
			I-131	<9.57E+01	0.00E+00	9.57E+01
			Cs-134	<5.97E+01	0.00E+00	5.97E+01
			Cs-137	<4.14E+01	0.00E+00	4.14E+01
			Be-7	<4.55E+02	0.00E+00	4.55E+02
			K-40	3.68E+03	9.22E+02	8.07E+02
			Ag-110M	<3.54E+01	0.00E+00	3.54E+01
			Sb-122	<7.31E+02	0.00E+00	7.31E+02
			Sb-125	<1.18E+02	0.00E+00	1.18E+02

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 57 [INDICATOR - SSW @ 0.4 miles]

Sample ID: 467117	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.99E+00	0.00E+00	5.99E+00
		Co-58	<6.03E+00	0.00E+00	6.03E+00
		Fe-59	<1.05E+01	0.00E+00	1.05E+01
		Co-60	<6.81E+00	0.00E+00	6.81E+00
		Zn-65	<1.09E+01	0.00E+00	1.09E+01
		Zr-95	<1.12E+01	0.00E+00	1.12E+01
		Nb-95	<7.37E+00	0.00E+00	7.37E+00
		I-131	<9.72E+00	0.00E+00	9.72E+00
		Cs-134	<5.12E+00	0.00E+00	5.12E+00
		Cs-137	<6.99E+00	0.00E+00	6.99E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 57 [INDICATOR - SSW @ 0.4 miles]

Sample ID:	467117	Sample Dates:	2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				BaLa-140	<1.19E+01	0.00E+00	1.19E+01
				Be-7	<4.81E+01	0.00E+00	4.81E+01
				K-40	<1.04E+02	0.00E+00	1.04E+02
				H3GW	<4.48E+01	0.00E+00	1.86E+02

Sample ID:	474243	Sample Dates:	5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.42E+00	0.00E+00	5.42E+00
				Co-58	<5.70E+00	0.00E+00	5.70E+00
				Fe-59	<1.23E+01	0.00E+00	1.23E+01
				Co-60	<5.53E+00	0.00E+00	5.53E+00
				Zn-65	<1.06E+01	0.00E+00	1.06E+01
				Zr-95	<1.17E+01	0.00E+00	1.17E+01
				Nb-95	<7.16E+00	0.00E+00	7.16E+00
				I-131	<1.03E+01	0.00E+00	1.03E+01
				Cs-134	<6.04E+00	0.00E+00	6.04E+00
				Cs-137	<6.92E+00	0.00E+00	6.92E+00
				BaLa-140	<1.07E+01	0.00E+00	1.07E+01
				Be-7	<4.15E+01	0.00E+00	4.15E+01
				K-40	<1.24E+02	0.00E+00	1.24E+02
				H3GW	<4.2E+01	0.00E+00	1.83E+02

Sample ID:	481128	Sample Dates:	8/7/2018 - 8/7/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.20E+00	0.00E+00	6.20E+00
				Co-58	<6.98E+00	0.00E+00	6.98E+00
				Fe-59	<1.36E+01	0.00E+00	1.36E+01
				Co-60	<4.44E+00	0.00E+00	4.44E+00
				Zn-65	<9.52E+00	0.00E+00	9.52E+00
				Zr-95	<8.81E+00	0.00E+00	8.81E+00
				Nb-95	<6.82E+00	0.00E+00	6.82E+00
				I-131	<7.07E+00	0.00E+00	7.07E+00
				Cs-134	<6.97E+00	0.00E+00	6.97E+00
				Cs-137	<4.96E+00	0.00E+00	4.96E+00
				BaLa-140	<7.86E+00	0.00E+00	7.86E+00
				Be-7	<4.60E+01	0.00E+00	4.60E+01
				K-40	<1.07E+02	0.00E+00	1.07E+02
				H3GW	<-3.8E+01	0.00E+00	1.80E+02

Sample ID:	481198	Sample Dates:	11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.68E+00	0.00E+00	5.68E+00
				Co-58	<5.62E+00	0.00E+00	5.62E+00
				Fe-59	<1.13E+01	0.00E+00	1.13E+01
				Co-60	<5.59E+00	0.00E+00	5.59E+00
				Zn-65	<9.90E+00	0.00E+00	9.90E+00
				Zr-95	<1.02E+01	0.00E+00	1.02E+01
				Nb-95	<5.90E+00	0.00E+00	5.90E+00
				I-131	<9.40E+00	0.00E+00	9.40E+00
				Cs-134	<6.35E+00	0.00E+00	6.35E+00
				Cs-137	<5.33E+00	0.00E+00	5.33E+00
				BaLa-140	<9.82E+00	0.00E+00	9.82E+00
				Be-7	<4.23E+01	0.00E+00	4.23E+01
				K-40	<1.13E+02	0.00E+00	1.13E+02
				H3GW	<9.47E+00	0.00E+00	1.85E+02

Sample Point 59 [INDICATOR - NNE @ 0.5 miles]

Sample ID:	467118	Sample Dates:	2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.76E+00	0.00E+00	5.76E+00
				Co-58	<4.29E+00	0.00E+00	4.29E+00
				Fe-59	<9.86E+00	0.00E+00	9.86E+00
				Co-60	<7.78E+00	0.00E+00	7.78E+00
				Zn-65	<1.26E+01	0.00E+00	1.26E+01
				Zr-95	<1.15E+01	0.00E+00	1.15E+01
				Nb-95	<7.08E+00	0.00E+00	7.08E+00
				I-131	<7.57E+00	0.00E+00	7.57E+00
				Cs-134	<6.45E+00	0.00E+00	6.45E+00
				Cs-137	<6.40E+00	0.00E+00	6.40E+00
				BaLa-140	<9.73E+00	0.00E+00	9.73E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 59 [INDICATOR - NNE @ 0.5 miles]

Sample ID:	467118	Sample Dates:	2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<4.17E+01	0.00E+00	4.17E+01
				K-40	<9.26E+01	0.00E+00	9.26E+01
				H3GW	<4.7E+00	0.00E+00	1.86E+02

Sample ID:	474244	Sample Dates:	5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.56E+00	0.00E+00	2.56E+00
				Co-58	<4.54E+00	0.00E+00	4.54E+00
				Fe-59	<7.76E+00	0.00E+00	7.76E+00
				Co-60	<3.79E+00	0.00E+00	3.79E+00
				Zn-65	<7.51E+00	0.00E+00	7.51E+00
				Zr-95	<7.98E+00	0.00E+00	7.98E+00
				Nb-95	<4.51E+00	0.00E+00	4.51E+00
				I-131	<1.10E+01	0.00E+00	1.10E+01
				Cs-134	<4.25E+00	0.00E+00	4.25E+00
				Cs-137	<3.66E+00	0.00E+00	3.66E+00
				BaLa-140	<9.57E+00	0.00E+00	9.57E+00
				Be-7	<3.15E+01	0.00E+00	3.15E+01
				K-40	<7.75E+01	0.00E+00	7.75E+01
				H3GW	<8.0E+01	0.00E+00	1.89E+02

Sample ID:	481129	Sample Dates:	8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.97E+00	0.00E+00	4.97E+00
				Co-58	<3.35E+00	0.00E+00	3.35E+00
				Fe-59	<1.15E+01	0.00E+00	1.15E+01
				Co-60	<5.53E+00	0.00E+00	5.53E+00
				Zn-65	<1.19E+01	0.00E+00	1.19E+01
				Zr-95	<9.05E+00	0.00E+00	9.05E+00
				Nb-95	<7.19E+00	0.00E+00	7.19E+00
				I-131	<8.58E+00	0.00E+00	8.58E+00
				Cs-134	<6.69E+00	0.00E+00	6.69E+00
				Cs-137	<6.14E+00	0.00E+00	6.14E+00
				BaLa-140	<1.08E+01	0.00E+00	1.08E+01
				Be-7	<4.10E+01	0.00E+00	4.10E+01
				K-40	1.40E+02	5.38E+01	4.45E+01
				H3GW	<4.3E+01	0.00E+00	1.80E+02

Sample ID:	481199	Sample Dates:	11/12/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.33E+00	0.00E+00	5.33E+00
				Co-58	<5.11E+00	0.00E+00	5.11E+00
				Fe-59	<1.08E+01	0.00E+00	1.08E+01
				Co-60	<5.43E+00	0.00E+00	5.43E+00
				Zn-65	<9.68E+00	0.00E+00	9.68E+00
				Zr-95	<9.73E+00	0.00E+00	9.73E+00
				Nb-95	<5.28E+00	0.00E+00	5.28E+00
				I-131	<1.02E+01	0.00E+00	1.02E+01
				Cs-134	<6.59E+00	0.00E+00	6.59E+00
				Cs-137	<5.87E+00	0.00E+00	5.87E+00
				BaLa-140	<2.06E+00	0.00E+00	2.06E+00
				Be-7	<4.17E+01	0.00E+00	4.17E+01
				K-40	<9.74E+01	0.00E+00	9.74E+01
				H3GW	<2.1E+01	0.00E+00	1.84E+02

Sample Point 60 [INDICATOR - ESE @ 0.5 miles]

Sample ID:	467119	Sample Dates:	2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.35E+00	0.00E+00	6.35E+00
				Co-58	<4.62E+00	0.00E+00	4.62E+00
				Fe-59	<8.10E+00	0.00E+00	8.10E+00
				Co-60	<4.83E+00	0.00E+00	4.83E+00
				Zn-65	<1.13E+01	0.00E+00	1.13E+01
				Zr-95	<8.86E+00	0.00E+00	8.86E+00
				Nb-95	<6.79E+00	0.00E+00	6.79E+00
				I-131	<6.78E+00	0.00E+00	6.78E+00
				Cs-134	<5.51E+00	0.00E+00	5.51E+00
				Cs-137	<5.17E+00	0.00E+00	5.17E+00
				BaLa-140	<7.19E+00	0.00E+00	7.19E+00
				Be-7	<4.06E+01	0.00E+00	4.06E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 60 [INDICATOR - ESE @ 0.5 miles]

Sample ID:	467119	Sample Dates:	2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
				K-40	9.47E+01	5.08E+01	6.29E+01
				H3GW	<0.00E+00	0.00E+00	1.86E+02

Sample ID:	474245	Sample Dates:	5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<6.01E+00	0.00E+00	6.01E+00
				Co-58	<7.90E+00	0.00E+00	7.90E+00
				Fe-59	<1.31E+01	0.00E+00	1.31E+01
				Co-60	<5.86E+00	0.00E+00	5.86E+00
				Zn-65	<1.13E+01	0.00E+00	1.13E+01
				Zr-95	<1.18E+01	0.00E+00	1.18E+01
				Nb-95	<5.55E+00	0.00E+00	5.55E+00
				I-131	<1.05E+01	0.00E+00	1.05E+01
				Cs-134	<5.35E+00	0.00E+00	5.35E+00
				Cs-137	<5.15E+00	0.00E+00	5.15E+00
				BaLa-140	<7.97E+00	0.00E+00	7.97E+00
				Be-7	<3.86E+01	0.00E+00	3.86E+01
				K-40	9.75E+01	6.22E+01	8.71E+01
				H3GW	<-1.3E+02	0.00E+00	1.83E+02

Sample ID:	481130	Sample Dates:	8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.91E+00	0.00E+00	5.91E+00
				Co-58	<5.29E+00	0.00E+00	5.29E+00
				Fe-59	<8.42E+00	0.00E+00	8.42E+00
				Co-60	<3.84E+00	0.00E+00	3.84E+00
				Zn-65	<8.83E+00	0.00E+00	8.83E+00
				Zr-95	<8.84E+00	0.00E+00	8.84E+00
				Nb-95	<4.91E+00	0.00E+00	4.91E+00
				I-131	<8.90E+00	0.00E+00	8.90E+00
				Cs-134	<5.95E+00	0.00E+00	5.95E+00
				Cs-137	<4.75E+00	0.00E+00	4.75E+00
				BaLa-140	<9.29E+00	0.00E+00	9.29E+00
				Be-7	<3.99E+01	0.00E+00	3.99E+01
				K-40	<9.51E+01	0.00E+00	9.51E+01
				H3GW	<-2.2E+01	0.00E+00	1.80E+02

Sample ID:	481200	Sample Dates:	11/12/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<4.28E+00	0.00E+00	4.28E+00
				Co-58	<5.19E+00	0.00E+00	5.19E+00
				Fe-59	<9.82E+00	0.00E+00	9.82E+00
				Co-60	<6.05E+00	0.00E+00	6.05E+00
				Zn-65	<1.08E+01	0.00E+00	1.08E+01
				Zr-95	<1.01E+01	0.00E+00	1.01E+01
				Nb-95	<6.74E+00	0.00E+00	6.74E+00
				I-131	<9.30E+00	0.00E+00	9.30E+00
				Cs-134	<4.77E+00	0.00E+00	4.77E+00
				Cs-137	<5.18E+00	0.00E+00	5.18E+00
				BaLa-140	<9.79E+00	0.00E+00	9.79E+00
				Be-7	<4.91E+01	0.00E+00	4.91E+01
				K-40	<9.48E+01	0.00E+00	9.48E+01
				H3GW	<-1.0E+02	0.00E+00	1.84E+02

Sample Point 68 [INDICATOR - W @ 0.2 miles]

Sample ID:	467120	Sample Dates:	2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<5.53E+00	0.00E+00	5.53E+00
				Co-58	<5.72E+00	0.00E+00	5.72E+00
				Fe-59	<1.41E+01	0.00E+00	1.41E+01
				Co-60	<3.84E+00	0.00E+00	3.84E+00
				Zn-65	<1.17E+01	0.00E+00	1.17E+01
				Zr-95	<8.84E+00	0.00E+00	8.84E+00
				Nb-95	<5.16E+00	0.00E+00	5.16E+00
				I-131	<8.77E+00	0.00E+00	8.77E+00
				Cs-134	<4.63E+00	0.00E+00	4.63E+00
				Cs-137	<4.75E+00	0.00E+00	4.75E+00
				BaLa-140	<6.60E+00	0.00E+00	6.60E+00
				Be-7	<4.35E+01	0.00E+00	4.35E+01
				K-40	<8.82E+01	0.00E+00	8.82E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 68 [INDICATOR - W @ 0.2 miles]

Sample ID: 467120	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<4.72E+00	0.00E+00	1.86E+02
Sample ID: 474246	Sample Dates: 5/9/2018 - 5/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.80E+00	0.00E+00	5.80E+00
		Co-58	<4.36E+00	0.00E+00	4.36E+00
		Fe-59	<1.20E+01	0.00E+00	1.20E+01
		Co-60	<6.69E+00	0.00E+00	6.69E+00
		Zn-65	<1.36E+01	0.00E+00	1.36E+01
		Zr-95	<1.15E+01	0.00E+00	1.15E+01
		Nb-95	<6.93E+00	0.00E+00	6.93E+00
		I-131	<7.51E+00	0.00E+00	7.51E+00
		Cs-134	<4.99E+00	0.00E+00	4.99E+00
		Cs-137	<7.06E+00	0.00E+00	7.06E+00
		BaLa-140	<8.00E+00	0.00E+00	8.00E+00
		Be-7	<4.42E+01	0.00E+00	4.42E+01
		K-40	9.92E+01	5.46E+01	6.95E+01
		H3GW	<-7.1E+00	0.00E+00	1.83E+02
Sample ID: 481131	Sample Dates: 8/7/2018 - 8/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.53E+00	0.00E+00	5.53E+00
		Co-58	<5.10E+00	0.00E+00	5.10E+00
		Fe-59	<9.37E+00	0.00E+00	9.37E+00
		Co-60	<5.84E+00	0.00E+00	5.84E+00
		Zn-65	<1.11E+01	0.00E+00	1.11E+01
		Zr-95	<9.71E+00	0.00E+00	9.71E+00
		Nb-95	<6.16E+00	0.00E+00	6.16E+00
		I-131	<6.89E+00	0.00E+00	6.89E+00
		Cs-134	<6.38E+00	0.00E+00	6.38E+00
		Cs-137	<5.70E+00	0.00E+00	5.70E+00
		BaLa-140	<8.15E+00	0.00E+00	8.15E+00
		Be-7	<3.50E+01	0.00E+00	3.50E+01
		K-40	7.52E+01	6.69E+01	1.04E+02
		H3GW	<9.61E+01	0.00E+00	1.80E+02
Sample ID: 481201	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.04E+00	0.00E+00	6.04E+00
		Co-58	<4.37E+00	0.00E+00	4.37E+00
		Fe-59	<1.31E+01	0.00E+00	1.31E+01
		Co-60	<7.01E+00	0.00E+00	7.01E+00
		Zn-65	<9.34E+00	0.00E+00	9.34E+00
		Zr-95	<9.90E+00	0.00E+00	9.90E+00
		Nb-95	<6.61E+00	0.00E+00	6.61E+00
		I-131	<8.26E+00	0.00E+00	8.26E+00
		Cs-134	<4.76E+00	0.00E+00	4.76E+00
		Cs-137	<5.70E+00	0.00E+00	5.70E+00
		BaLa-140	<7.12E+00	0.00E+00	7.12E+00
		Be-7	<3.83E+01	0.00E+00	3.83E+01
		K-40	<8.11E+01	0.00E+00	8.11E+01
		H3GW	<7.78E+01	0.00E+00	1.84E+02

Sample Point 69 [INDICATOR - NNE @ 0.2 miles]

Sample ID: 467121	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.51E+00	0.00E+00	5.51E+00
		Co-58	<6.09E+00	0.00E+00	6.09E+00
		Fe-59	<1.22E+01	0.00E+00	1.22E+01
		Co-60	<5.43E+00	0.00E+00	5.43E+00
		Zn-65	<1.52E+01	0.00E+00	1.52E+01
		Zr-95	<6.92E+00	0.00E+00	6.92E+00
		Nb-95	<6.39E+00	0.00E+00	6.39E+00
		I-131	<8.84E+00	0.00E+00	8.84E+00
		Cs-134	<6.98E+00	0.00E+00	6.98E+00
		Cs-137	<4.26E+00	0.00E+00	4.26E+00
		BaLa-140	<7.60E+00	0.00E+00	7.60E+00
		Be-7	<3.72E+01	0.00E+00	3.72E+01
		K-40	9.09E+01	5.53E+01	7.50E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 69 [INDICATOR - NNE @ 0.2 miles]

Sample ID: 467121	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-3.3E+01	0.00E+00	1.86E+02
Sample ID: 474247	Sample Dates: 5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.52E+00	0.00E+00	4.52E+00
		Co-58	<4.95E+00	0.00E+00	4.95E+00
		Fe-59	<8.33E+00	0.00E+00	8.33E+00
		Co-60	<4.34E+00	0.00E+00	4.34E+00
		Zn-65	<8.60E+00	0.00E+00	8.60E+00
		Zr-95	<7.32E+00	0.00E+00	7.32E+00
		Nb-95	<5.11E+00	0.00E+00	5.11E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<6.58E+00	0.00E+00	6.58E+00
		Cs-137	<4.13E+00	0.00E+00	4.13E+00
		BaLa-140	<8.85E+00	0.00E+00	8.85E+00
		Be-7	<4.50E+01	0.00E+00	4.50E+01
		K-40	<1.10E+02	0.00E+00	1.10E+02
		H3GW	<-4.0E+01	0.00E+00	1.83E+02
Sample ID: 481132	Sample Dates: 8/7/2018 - 8/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.51E+00	0.00E+00	4.51E+00
		Co-58	<5.77E+00	0.00E+00	5.77E+00
		Fe-59	<9.08E+00	0.00E+00	9.08E+00
		Co-60	<5.28E+00	0.00E+00	5.28E+00
		Zn-65	<1.14E+01	0.00E+00	1.14E+01
		Zr-95	<8.22E+00	0.00E+00	8.22E+00
		Nb-95	<6.33E+00	0.00E+00	6.33E+00
		I-131	<8.27E+00	0.00E+00	8.27E+00
		Cs-134	<5.52E+00	0.00E+00	5.52E+00
		Cs-137	<5.85E+00	0.00E+00	5.85E+00
		BaLa-140	<8.80E+00	0.00E+00	8.80E+00
		Be-7	<4.37E+01	0.00E+00	4.37E+01
		K-40	7.91E+01	6.03E+01	9.02E+01
		H3GW	<-1.8E+01	0.00E+00	1.80E+02
Sample ID: 481202	Sample Dates: 11/12/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.28E+00	0.00E+00	5.28E+00
		Co-58	<4.75E+00	0.00E+00	4.75E+00
		Fe-59	<1.28E+01	0.00E+00	1.28E+01
		Co-60	<6.77E+00	0.00E+00	6.77E+00
		Zn-65	<9.96E+00	0.00E+00	9.96E+00
		Zr-95	<8.32E+00	0.00E+00	8.32E+00
		Nb-95	<5.93E+00	0.00E+00	5.93E+00
		I-131	<8.32E+00	0.00E+00	8.32E+00
		Cs-134	<6.13E+00	0.00E+00	6.13E+00
		Cs-137	<5.53E+00	0.00E+00	5.53E+00
		BaLa-140	<1.17E+01	0.00E+00	1.17E+01
		Be-7	<3.95E+01	0.00E+00	3.95E+01
		K-40	<7.43E+01	0.00E+00	7.43E+01
		H3GW	<6.63E+01	0.00E+00	1.85E+02

Sample Point 70 [INDICATOR - E @ 0.4 miles]

Sample ID: 467122	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.71E+00	0.00E+00	5.71E+00
		Co-58	<4.67E+00	0.00E+00	4.67E+00
		Fe-59	<1.03E+01	0.00E+00	1.03E+01
		Co-60	<6.71E+00	0.00E+00	6.71E+00
		Zn-65	<1.30E+01	0.00E+00	1.30E+01
		Zr-95	<9.32E+00	0.00E+00	9.32E+00
		Nb-95	<5.46E+00	0.00E+00	5.46E+00
		I-131	<8.07E+00	0.00E+00	8.07E+00
		Cs-134	<7.62E+00	0.00E+00	7.62E+00
		Cs-137	<5.53E+00	0.00E+00	5.53E+00
		BaLa-140	<7.55E+00	0.00E+00	7.55E+00
		Be-7	<4.44E+01	0.00E+00	4.44E+01
		K-40	9.80E+01	4.94E+01	5.75E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 70 [INDICATOR - E @ 0.4 miles]

Sample ID: 467122	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-8.5E+01	0.00E+00	1.86E+02
Sample ID: 474248	Sample Dates: 5/7/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.08E+00	0.00E+00	5.08E+00
		Co-58	<5.90E+00	0.00E+00	5.90E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<5.87E+00	0.00E+00	5.87E+00
		Zn-65	<1.20E+01	0.00E+00	1.20E+01
		Zr-95	<7.13E+00	0.00E+00	7.13E+00
		Nb-95	<6.70E+00	0.00E+00	6.70E+00
		I-131	<1.03E+01	0.00E+00	1.03E+01
		Cs-134	<5.35E+00	0.00E+00	5.35E+00
		Cs-137	<4.90E+00	0.00E+00	4.90E+00
		BaLa-140	<6.62E+00	0.00E+00	6.62E+00
		Be-7	1.72E+00	2.55E+01	4.75E+01
		K-40	8.12E+01	5.51E+01	7.69E+01
		H3GW	<-2.4E+00	0.00E+00	1.83E+02
Sample ID: 481133	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.88E+00	0.00E+00	4.88E+00
		Co-58	<3.97E+00	0.00E+00	3.97E+00
		Fe-59	<1.22E+01	0.00E+00	1.22E+01
		Co-60	<4.46E+00	0.00E+00	4.46E+00
		Zn-65	<1.28E+01	0.00E+00	1.28E+01
		Zr-95	<1.03E+01	0.00E+00	1.03E+01
		Nb-95	<6.01E+00	0.00E+00	6.01E+00
		I-131	<7.85E+00	0.00E+00	7.85E+00
		Cs-134	<5.70E+00	0.00E+00	5.70E+00
		Cs-137	<6.36E+00	0.00E+00	6.36E+00
		BaLa-140	<7.62E+00	0.00E+00	7.62E+00
		Be-7	<4.75E+01	0.00E+00	4.75E+01
		K-40	<7.52E+01	0.00E+00	7.52E+01
		H3GW	<-4.9E+01	0.00E+00	1.80E+02
Sample ID: 481203	Sample Dates: 11/12/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.66E+00	0.00E+00	4.66E+00
		Co-58	<4.60E+00	0.00E+00	4.60E+00
		Fe-59	<1.01E+01	0.00E+00	1.01E+01
		Co-60	<7.22E+00	0.00E+00	7.22E+00
		Zn-65	<1.17E+01	0.00E+00	1.17E+01
		Zr-95	<1.14E+01	0.00E+00	1.14E+01
		Nb-95	<5.27E+00	0.00E+00	5.27E+00
		I-131	<8.72E+00	0.00E+00	8.72E+00
		Cs-134	<6.79E+00	0.00E+00	6.79E+00
		Cs-137	<3.72E+00	0.00E+00	3.72E+00
		BaLa-140	<1.07E+01	0.00E+00	1.07E+01
		Be-7	<3.50E+01	0.00E+00	3.50E+01
		K-40	4.56E+01	7.12E+01	1.19E+02
		H3GW	<-7.1E+00	0.00E+00	1.84E+02

Sample Point 71 [INDICATOR - SE @ 0.3 miles]

Sample ID: 467123	Sample Dates: 2/19/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.13E+00	0.00E+00	5.13E+00
		Co-58	<3.69E+00	0.00E+00	3.69E+00
		Fe-59	<7.70E+00	0.00E+00	7.70E+00
		Co-60	<6.56E+00	0.00E+00	6.56E+00
		Zn-65	<9.67E+00	0.00E+00	9.67E+00
		Zr-95	<8.07E+00	0.00E+00	8.07E+00
		Nb-95	<5.76E+00	0.00E+00	5.76E+00
		I-131	<9.18E+00	0.00E+00	9.18E+00
		Cs-134	<5.21E+00	0.00E+00	5.21E+00
		Cs-137	<5.36E+00	0.00E+00	5.36E+00
		BaLa-140	<9.95E+00	0.00E+00	9.95E+00
		Be-7	<4.95E+01	0.00E+00	4.95E+01
		K-40	<8.33E+01	0.00E+00	8.33E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 71 [INDICATOR - SE @ 0.3 miles]

Sample ID: 467123	Sample Dates: 2/19/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-4.3E+01	0.00E+00	1.86E+02
Sample ID: 474249	Sample Dates: 5/7/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.65E+00	0.00E+00	5.65E+00
		Co-58	<5.60E+00	0.00E+00	5.60E+00
		Fe-59	<1.07E+01	0.00E+00	1.07E+01
		Co-60	<5.33E+00	0.00E+00	5.33E+00
		Zn-65	<1.19E+01	0.00E+00	1.19E+01
		Zr-95	<1.03E+01	0.00E+00	1.03E+01
		Nb-95	<5.94E+00	0.00E+00	5.94E+00
		I-131	<9.16E+00	0.00E+00	9.16E+00
		Cs-134	<6.46E+00	0.00E+00	6.46E+00
		Cs-137	<4.58E+00	0.00E+00	4.58E+00
		BaLa-140	<1.13E+01	0.00E+00	1.13E+01
		Be-7	<4.63E+01	0.00E+00	4.63E+01
		K-40	1.88E+02	5.38E+01	9.61E+00
		H3GW	<-7.8E+01	0.00E+00	1.83E+02
Sample ID: 481134	Sample Dates: 8/8/2018 - 8/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.70E+00	0.00E+00	5.70E+00
		Co-58	<5.19E+00	0.00E+00	5.19E+00
		Fe-59	<1.07E+01	0.00E+00	1.07E+01
		Co-60	<8.02E+00	0.00E+00	8.02E+00
		Zn-65	<8.15E+00	0.00E+00	8.15E+00
		Zr-95	<8.63E+00	0.00E+00	8.63E+00
		Nb-95	<6.73E+00	0.00E+00	6.73E+00
		I-131	<7.71E+00	0.00E+00	7.71E+00
		Cs-134	<6.38E+00	0.00E+00	6.38E+00
		Cs-137	<6.27E+00	0.00E+00	6.27E+00
		BaLa-140	<1.17E+01	0.00E+00	1.17E+01
		Be-7	<4.34E+01	0.00E+00	4.34E+01
		K-40	1.18E+02	6.37E+01	8.45E+01
		H3GW	<-1.1E+01	0.00E+00	1.80E+02
Sample ID: 481204	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.32E+00	0.00E+00	5.32E+00
		Co-58	<4.79E+00	0.00E+00	4.79E+00
		Fe-59	<8.33E+00	0.00E+00	8.33E+00
		Co-60	<5.83E+00	0.00E+00	5.83E+00
		Zn-65	<1.03E+01	0.00E+00	1.03E+01
		Zr-95	<9.17E+00	0.00E+00	9.17E+00
		Nb-95	<5.32E+00	0.00E+00	5.32E+00
		I-131	<6.71E+00	0.00E+00	6.71E+00
		Cs-134	<5.71E+00	0.00E+00	5.71E+00
		Cs-137	<4.52E+00	0.00E+00	4.52E+00
		BaLa-140	<9.64E+00	0.00E+00	9.64E+00
		Be-7	<4.63E+01	0.00E+00	4.63E+01
		K-40	5.53E+01	4.85E+01	7.32E+01
		H3GW	<4.03E+01	0.00E+00	1.85E+02

Sample Point 72 [INDICATOR - SE @ 0.2 miles]

Sample ID: 467124	Sample Dates: 2/19/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.48E+00	0.00E+00	5.48E+00
		Co-58	<5.15E+00	0.00E+00	5.15E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<5.44E+00	0.00E+00	5.44E+00
		Zn-65	<1.24E+01	0.00E+00	1.24E+01
		Zr-95	<1.14E+01	0.00E+00	1.14E+01
		Nb-95	<8.01E+00	0.00E+00	8.01E+00
		I-131	<8.87E+00	0.00E+00	8.87E+00
		Cs-134	<5.92E+00	0.00E+00	5.92E+00
		Cs-137	<6.59E+00	0.00E+00	6.59E+00
		BaLa-140	<1.17E+01	0.00E+00	1.17E+01
		Be-7	<4.68E+01	0.00E+00	4.68E+01
		K-40	<9.46E+01	0.00E+00	9.46E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 72 [INDICATOR - SE @ 0.2 miles]

Sample ID: 467124	Sample Dates: 2/19/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-1.4E+01	0.00E+00	1.86E+02
Sample ID: 474250	Sample Dates: 5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<7.45E+00	0.00E+00	7.45E+00
		Co-58	<5.32E+00	0.00E+00	5.32E+00
		Fe-59	<1.12E+01	0.00E+00	1.12E+01
		Co-60	<6.50E+00	0.00E+00	6.50E+00
		Zn-65	<1.33E+01	0.00E+00	1.33E+01
		Zr-95	<1.14E+01	0.00E+00	1.14E+01
		Nb-95	<8.19E+00	0.00E+00	8.19E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<6.36E+00	0.00E+00	6.36E+00
		Cs-137	<6.03E+00	0.00E+00	6.03E+00
		BaLa-140	<6.96E+00	0.00E+00	6.96E+00
		Be-7	<4.72E+01	0.00E+00	4.72E+01
		K-40	6.55E+01	5.57E+01	8.49E+01
		H3GW	<3.07E+01	0.00E+00	1.84E+02
Sample ID: 481135	Sample Dates: 8/7/2018 - 8/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.20E+00	0.00E+00	6.20E+00
		Co-58	<5.48E+00	0.00E+00	5.48E+00
		Fe-59	<1.23E+01	0.00E+00	1.23E+01
		Co-60	<6.31E+00	0.00E+00	6.31E+00
		Zn-65	<1.01E+01	0.00E+00	1.01E+01
		Zr-95	<9.58E+00	0.00E+00	9.58E+00
		Nb-95	<5.05E+00	0.00E+00	5.05E+00
		I-131	<8.80E+00	0.00E+00	8.80E+00
		Cs-134	<6.24E+00	0.00E+00	6.24E+00
		Cs-137	<5.56E+00	0.00E+00	5.56E+00
		BaLa-140	<1.15E+01	0.00E+00	1.15E+01
		Be-7	<4.96E+01	0.00E+00	4.96E+01
		K-40	<8.91E+01	0.00E+00	8.91E+01
		H3GW	<5.81E+01	0.00E+00	1.80E+02
Sample ID: 481205	Sample Dates: 11/13/2018 - 11/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.77E+00	0.00E+00	6.77E+00
		Co-58	<6.85E+00	0.00E+00	6.85E+00
		Fe-59	<1.42E+01	0.00E+00	1.42E+01
		Co-60	<5.58E+00	0.00E+00	5.58E+00
		Zn-65	<1.48E+01	0.00E+00	1.48E+01
		Zr-95	<1.20E+01	0.00E+00	1.20E+01
		Nb-95	<7.71E+00	0.00E+00	7.71E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<6.99E+00	0.00E+00	6.99E+00
		Cs-137	<4.12E+00	0.00E+00	4.12E+00
		BaLa-140	<9.81E+00	0.00E+00	9.81E+00
		Be-7	<5.59E+01	0.00E+00	5.59E+01
		K-40	1.73E+02	8.44E+01	1.15E+02
		H3GW	<2.13E+01	0.00E+00	1.85E+02

Sample Point 73 [INDICATOR - S @ 0.2 miles]

Sample ID: 467125	Sample Dates: 2/19/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.79E+00	0.00E+00	4.79E+00
		Co-58	<7.07E+00	0.00E+00	7.07E+00
		Fe-59	<1.09E+01	0.00E+00	1.09E+01
		Co-60	<5.86E+00	0.00E+00	5.86E+00
		Zn-65	<1.20E+01	0.00E+00	1.20E+01
		Zr-95	<6.25E+00	0.00E+00	6.25E+00
		Nb-95	<6.66E+00	0.00E+00	6.66E+00
		I-131	<9.89E+00	0.00E+00	9.89E+00
		Cs-134	<5.65E+00	0.00E+00	5.65E+00
		Cs-137	<5.38E+00	0.00E+00	5.38E+00
		BaLa-140	<8.66E+00	0.00E+00	8.66E+00
		Be-7	<4.11E+01	0.00E+00	4.11E+01
		K-40	9.29E+01	6.48E+01	9.43E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 73 [INDICATOR - S @ 0.2 miles]

Sample ID: 467125	Sample Dates: 2/19/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-4.7E+01	0.00E+00	1.85E+02
Sample ID: 474251	Sample Dates: 5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.72E+00	0.00E+00	5.72E+00
		Co-58	<6.76E+00	0.00E+00	6.76E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<4.61E+00	0.00E+00	4.61E+00
		Zn-65	<1.21E+01	0.00E+00	1.21E+01
		Zr-95	<1.01E+01	0.00E+00	1.01E+01
		Nb-95	<6.38E+00	0.00E+00	6.38E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<7.22E+00	0.00E+00	7.22E+00
		Cs-137	<5.71E+00	0.00E+00	5.71E+00
		BaLa-140	<1.03E+01	0.00E+00	1.03E+01
		Be-7	<5.30E+01	0.00E+00	5.30E+01
		K-40	1.66E+02	6.38E+01	6.54E+01
		H3GW	<-7.3E+01	0.00E+00	1.83E+02
Sample ID: 481136	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.34E+00	0.00E+00	5.34E+00
		Co-58	<4.88E+00	0.00E+00	4.88E+00
		Fe-59	<1.19E+01	0.00E+00	1.19E+01
		Co-60	<4.83E+00	0.00E+00	4.83E+00
		Zn-65	<1.19E+01	0.00E+00	1.19E+01
		Zr-95	<8.53E+00	0.00E+00	8.53E+00
		Nb-95	<4.21E+00	0.00E+00	4.21E+00
		I-131	<8.35E+00	0.00E+00	8.35E+00
		Cs-134	<5.52E+00	0.00E+00	5.52E+00
		Cs-137	<5.69E+00	0.00E+00	5.69E+00
		BaLa-140	<9.72E+00	0.00E+00	9.72E+00
		Be-7	<3.61E+01	0.00E+00	3.61E+01
		K-40	4.45E+01	3.80E+01	5.51E+01
		H3GW	<2.92E+01	0.00E+00	1.81E+02
Sample ID: 481206	Sample Dates: 11/13/2018 - 11/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.79E+00	0.00E+00	3.79E+00
		Co-58	<3.55E+00	0.00E+00	3.55E+00
		Fe-59	<8.54E+00	0.00E+00	8.54E+00
		Co-60	<4.30E+00	0.00E+00	4.30E+00
		Zn-65	<5.92E+00	0.00E+00	5.92E+00
		Zr-95	<8.09E+00	0.00E+00	8.09E+00
		Nb-95	<6.55E+00	0.00E+00	6.55E+00
		I-131	<9.14E+00	0.00E+00	9.14E+00
		Cs-134	<4.02E+00	0.00E+00	4.02E+00
		Cs-137	<5.40E+00	0.00E+00	5.40E+00
		BaLa-140	<1.11E+01	0.00E+00	1.11E+01
		Be-7	<4.46E+01	0.00E+00	4.46E+01
		K-40	4.51E+01	4.65E+01	7.41E+01
		H3GW	<-1.3E+02	0.00E+00	1.84E+02

Sample Point 74 [INDICATOR - SSE @ 0.2 miles]

Sample ID: 467126	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.96E+00	0.00E+00	4.96E+00
		Co-58	<6.39E+00	0.00E+00	6.39E+00
		Fe-59	<1.25E+01	0.00E+00	1.25E+01
		Co-60	<5.53E+00	0.00E+00	5.53E+00
		Zn-65	<1.41E+01	0.00E+00	1.41E+01
		Zr-95	<8.08E+00	0.00E+00	8.08E+00
		Nb-95	<6.89E+00	0.00E+00	6.89E+00
		I-131	<9.34E+00	0.00E+00	9.34E+00
		Cs-134	<4.69E+00	0.00E+00	4.69E+00
		Cs-137	<5.61E+00	0.00E+00	5.61E+00
		BaLa-140	<7.87E+00	0.00E+00	7.87E+00
		Be-7	<4.17E+01	0.00E+00	4.17E+01
		K-40	1.26E+02	7.61E+01	1.10E+02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 74 [INDICATOR - SSE @ 0.2 miles]

Sample ID: 467126	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<-1.4E+01	0.00E+00	1.85E+02
Sample ID: 474252	Sample Dates: 5/9/2018 - 5/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.53E+00	0.00E+00	5.53E+00
		Co-58	<5.31E+00	0.00E+00	5.31E+00
		Fe-59	<1.33E+01	0.00E+00	1.33E+01
		Co-60	<3.84E+00	0.00E+00	3.84E+00
		Zn-65	<1.17E+01	0.00E+00	1.17E+01
		Zr-95	<9.66E+00	0.00E+00	9.66E+00
		Nb-95	<5.44E+00	0.00E+00	5.44E+00
		I-131	<9.06E+00	0.00E+00	9.06E+00
		Cs-134	<5.96E+00	0.00E+00	5.96E+00
		Cs-137	<5.73E+00	0.00E+00	5.73E+00
		BaLa-140	<9.50E+00	0.00E+00	9.50E+00
		Be-7	<5.28E+01	0.00E+00	5.28E+01
		K-40	5.41E+01	5.24E+01	8.18E+01
		H3GW	<3.53E+01	0.00E+00	1.83E+02
Sample ID: 481137	Sample Dates: 8/8/2018 - 8/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.71E+00	0.00E+00	5.71E+00
		Co-58	<5.25E+00	0.00E+00	5.25E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<3.04E+00	0.00E+00	3.04E+00
		Zn-65	<1.03E+01	0.00E+00	1.03E+01
		Zr-95	<9.55E+00	0.00E+00	9.55E+00
		Nb-95	<5.54E+00	0.00E+00	5.54E+00
		I-131	<7.41E+00	0.00E+00	7.41E+00
		Cs-134	<6.80E+00	0.00E+00	6.80E+00
		Cs-137	<3.42E+00	0.00E+00	3.42E+00
		BaLa-140	<8.94E+00	0.00E+00	8.94E+00
		Be-7	<4.52E+01	0.00E+00	4.52E+01
		K-40	8.43E+01	5.31E+01	7.23E+01
		H3GW	<3.21E+01	0.00E+00	1.84E+02
Sample ID: 481207	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.10E+00	0.00E+00	5.10E+00
		Co-58	<4.49E+00	0.00E+00	4.49E+00
		Fe-59	<9.66E+00	0.00E+00	9.66E+00
		Co-60	<4.96E+00	0.00E+00	4.96E+00
		Zn-65	<1.33E+01	0.00E+00	1.33E+01
		Zr-95	<7.84E+00	0.00E+00	7.84E+00
		Nb-95	<6.05E+00	0.00E+00	6.05E+00
		I-131	<6.92E+00	0.00E+00	6.92E+00
		Cs-134	<5.71E+00	0.00E+00	5.71E+00
		Cs-137	<5.36E+00	0.00E+00	5.36E+00
		BaLa-140	<9.21E+00	0.00E+00	9.21E+00
		Be-7	<4.68E+01	0.00E+00	4.68E+01
		K-40	<9.29E+01	0.00E+00	9.29E+01
		H3GW	<-6.6E+01	0.00E+00	1.84E+02

Sample Point 75 [INDICATOR - ESE @ 0.1 miles]

Sample ID: 467127	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.34E+00	0.00E+00	6.34E+00
		Co-58	<5.13E+00	0.00E+00	5.13E+00
		Fe-59	<1.34E+01	0.00E+00	1.34E+01
		Co-60	<5.95E+00	0.00E+00	5.95E+00
		Zn-65	<1.12E+01	0.00E+00	1.12E+01
		Zr-95	<1.05E+01	0.00E+00	1.05E+01
		Nb-95	<6.87E+00	0.00E+00	6.87E+00
		I-131	<9.07E+00	0.00E+00	9.07E+00
		Cs-134	<5.46E+00	0.00E+00	5.46E+00
		Cs-137	<6.46E+00	0.00E+00	6.46E+00
		BaLa-140	<7.81E+00	0.00E+00	7.81E+00
		Be-7	<3.64E+01	0.00E+00	3.64E+01
		K-40	1.11E+02	5.58E+01	6.72E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 75 [INDICATOR - ESE @ 0.1 miles]

Sample ID: 467127	Sample Dates: 2/20/2018 - 2/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<8.69E+01	0.00E+00	1.72E+02
Sample ID: 474253	Sample Dates: 5/10/2018 - 5/10/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.02E+00	0.00E+00	6.02E+00
		Co-58	<5.81E+00	0.00E+00	5.81E+00
		Fe-59	<1.38E+01	0.00E+00	1.38E+01
		Co-60	<4.83E+00	0.00E+00	4.83E+00
		Zn-65	<1.07E+01	0.00E+00	1.07E+01
		Zr-95	<9.47E+00	0.00E+00	9.47E+00
		Nb-95	<6.97E+00	0.00E+00	6.97E+00
		I-131	<7.32E+00	0.00E+00	7.32E+00
		Cs-134	<7.10E+00	0.00E+00	7.10E+00
		Cs-137	<5.85E+00	0.00E+00	5.85E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<4.33E+01	0.00E+00	4.33E+01
		K-40	9.91E+01	5.49E+01	7.15E+01
		H3GW	<-3.8E+01	0.00E+00	1.83E+02
Sample ID: 481138	Sample Dates: 8/7/2018 - 8/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.20E+00	0.00E+00	4.20E+00
		Co-58	<5.41E+00	0.00E+00	5.41E+00
		Fe-59	<7.81E+00	0.00E+00	7.81E+00
		Co-60	<7.03E+00	0.00E+00	7.03E+00
		Zn-65	<1.36E+01	0.00E+00	1.36E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<6.24E+00	0.00E+00	6.24E+00
		I-131	<8.33E+00	0.00E+00	8.33E+00
		Cs-134	<5.79E+00	0.00E+00	5.79E+00
		Cs-137	<5.22E+00	0.00E+00	5.22E+00
		BaLa-140	<5.64E+00	0.00E+00	5.64E+00
		Be-7	<4.57E+01	0.00E+00	4.57E+01
		K-40	1.61E+02	5.71E+01	4.26E+01
		H3GW	<-5.5E+01	0.00E+00	1.85E+02
Sample ID: 481208	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.31E+00	0.00E+00	5.31E+00
		Co-58	<5.02E+00	0.00E+00	5.02E+00
		Fe-59	<9.75E+00	0.00E+00	9.75E+00
		Co-60	<5.83E+00	0.00E+00	5.83E+00
		Zn-65	<1.43E+01	0.00E+00	1.43E+01
		Zr-95	<8.34E+00	0.00E+00	8.34E+00
		Nb-95	<7.00E+00	0.00E+00	7.00E+00
		I-131	<7.95E+00	0.00E+00	7.95E+00
		Cs-134	<5.47E+00	0.00E+00	5.47E+00
		Cs-137	<5.16E+00	0.00E+00	5.16E+00
		BaLa-140	<6.28E+00	0.00E+00	6.28E+00
		Be-7	<4.72E+01	0.00E+00	4.72E+01
		K-40	<1.06E+02	0.00E+00	1.06E+02
		H3GW	<-2.4E+00	0.00E+00	1.90E+02

Sample Point 77 [INDICATOR - S @ 0.4 miles]

Sample ID: 467129	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.69E+00	0.00E+00	5.69E+00
		Co-58	<5.66E+00	0.00E+00	5.66E+00
		Fe-59	<1.01E+01	0.00E+00	1.01E+01
		Co-60	<7.00E+00	0.00E+00	7.00E+00
		Zn-65	<1.19E+01	0.00E+00	1.19E+01
		Zr-95	<1.05E+01	0.00E+00	1.05E+01
		Nb-95	<7.06E+00	0.00E+00	7.06E+00
		I-131	<7.48E+00	0.00E+00	7.48E+00
		Cs-134	<5.51E+00	0.00E+00	5.51E+00
		Cs-137	<5.85E+00	0.00E+00	5.85E+00
		BaLa-140	<7.92E+00	0.00E+00	7.92E+00
		Be-7	<3.31E+01	0.00E+00	3.31E+01
		K-40	<1.03E+02	0.00E+00	1.03E+02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 77 [INDICATOR - S @ 0.4 miles]

Sample ID: 467129	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	1.74E+02	1.05E+02	1.72E+02
Sample ID: 474255	Sample Dates: 5/7/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.15E+00	0.00E+00	4.15E+00
		Co-58	<5.61E+00	0.00E+00	5.61E+00
		Fe-59	<1.02E+01	0.00E+00	1.02E+01
		Co-60	<5.44E+00	0.00E+00	5.44E+00
		Zn-65	<1.11E+01	0.00E+00	1.11E+01
		Zr-95	<1.12E+01	0.00E+00	1.12E+01
		Nb-95	<5.85E+00	0.00E+00	5.85E+00
		I-131	<9.75E+00	0.00E+00	9.75E+00
		Cs-134	<4.62E+00	0.00E+00	4.62E+00
		Cs-137	<4.72E+00	0.00E+00	4.72E+00
		BaLa-140	<7.42E+00	0.00E+00	7.42E+00
		Be-7	<4.34E+01	0.00E+00	4.34E+01
		K-40	5.11E+01	6.73E+01	1.11E+02
		H3GW	<1.64E+02	0.00E+00	1.81E+02
Sample ID: 481140	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.64E+00	0.00E+00	5.64E+00
		Co-58	<5.03E+00	0.00E+00	5.03E+00
		Fe-59	<8.96E+00	0.00E+00	8.96E+00
		Co-60	<5.58E+00	0.00E+00	5.58E+00
		Zn-65	<1.36E+01	0.00E+00	1.36E+01
		Zr-95	<1.09E+01	0.00E+00	1.09E+01
		Nb-95	<6.17E+00	0.00E+00	6.17E+00
		I-131	<5.67E+00	0.00E+00	5.67E+00
		Cs-134	<7.18E+00	0.00E+00	7.18E+00
		Cs-137	<4.41E+00	0.00E+00	4.41E+00
		BaLa-140	<1.63E+00	0.00E+00	1.63E+00
		Be-7	<4.32E+01	0.00E+00	4.32E+01
		K-40	<7.43E+01	0.00E+00	7.43E+01
		H3GW	<1.16E+02	0.00E+00	1.85E+02
Sample ID: 481210	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.88E+00	0.00E+00	5.88E+00
		Co-58	<3.62E+00	0.00E+00	3.62E+00
		Fe-59	<9.13E+00	0.00E+00	9.13E+00
		Co-60	<5.84E+00	0.00E+00	5.84E+00
		Zn-65	<1.10E+01	0.00E+00	1.10E+01
		Zr-95	<8.34E+00	0.00E+00	8.34E+00
		Nb-95	<5.96E+00	0.00E+00	5.96E+00
		I-131	<6.41E+00	0.00E+00	6.41E+00
		Cs-134	<5.70E+00	0.00E+00	5.70E+00
		Cs-137	<4.72E+00	0.00E+00	4.72E+00
		BaLa-140	<6.42E+00	0.00E+00	6.42E+00
		Be-7	<3.70E+01	0.00E+00	3.70E+01
		K-40	<9.30E+01	0.00E+00	9.30E+01
		H3GW	<1.39E+02	0.00E+00	1.90E+02

Sample Point 78 [INDICATOR - S @ 0.5 miles]

Sample ID: 467130	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.23E+00	0.00E+00	5.23E+00
		Co-58	<6.66E+00	0.00E+00	6.66E+00
		Fe-59	<6.82E+00	0.00E+00	6.82E+00
		Co-60	<7.02E+00	0.00E+00	7.02E+00
		Zn-65	<8.45E+00	0.00E+00	8.45E+00
		Zr-95	<1.19E+01	0.00E+00	1.19E+01
		Nb-95	<7.59E+00	0.00E+00	7.59E+00
		I-131	<7.28E+00	0.00E+00	7.28E+00
		Cs-134	<6.62E+00	0.00E+00	6.62E+00
		Cs-137	<7.03E+00	0.00E+00	7.03E+00
		BaLa-140	<6.49E+00	0.00E+00	6.49E+00
		Be-7	<4.08E+01	0.00E+00	4.08E+01
		K-40	<1.19E+02	0.00E+00	1.19E+02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 78 [INDICATOR - S @ 0.5 miles]

Sample ID: 467130	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	6.76E+02	1.22E+02	1.71E+02
Sample ID: 474256	Sample Dates: 5/7/2018 - 5/7/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.13E+00	0.00E+00	5.13E+00
		Co-58	<6.95E+00	0.00E+00	6.95E+00
		Fe-59	<1.21E+01	0.00E+00	1.21E+01
		Co-60	<4.98E+00	0.00E+00	4.98E+00
		Zn-65	<1.04E+01	0.00E+00	1.04E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<5.86E+00	0.00E+00	5.86E+00
		I-131	<8.69E+00	0.00E+00	8.69E+00
		Cs-134	<6.99E+00	0.00E+00	6.99E+00
		Cs-137	<4.72E+00	0.00E+00	4.72E+00
		BaLa-140	<5.92E+00	0.00E+00	5.92E+00
		Be-7	<3.97E+01	0.00E+00	3.97E+01
		K-40	5.94E+01	5.83E+01	9.18E+01
		H3GW	2.99E+02	1.15E+02	1.82E+02
Sample ID: 481141	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.80E+00	0.00E+00	5.80E+00
		Co-58	<6.56E+00	0.00E+00	6.56E+00
		Fe-59	<9.37E+00	0.00E+00	9.37E+00
		Co-60	<5.95E+00	0.00E+00	5.95E+00
		Zn-65	<5.51E+00	0.00E+00	5.51E+00
		Zr-95	<1.01E+01	0.00E+00	1.01E+01
		Nb-95	<6.12E+00	0.00E+00	6.12E+00
		I-131	<8.60E+00	0.00E+00	8.60E+00
		Cs-134	<7.09E+00	0.00E+00	7.09E+00
		Cs-137	<6.77E+00	0.00E+00	6.77E+00
		BaLa-140	<7.83E+00	0.00E+00	7.83E+00
		Be-7	<3.50E+01	0.00E+00	3.50E+01
		K-40	1.39E+02	5.78E+01	5.96E+01
		H3GW	4.89E+02	1.23E+02	1.85E+02
Sample ID: 481211	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.70E+00	0.00E+00	5.69E+00
		Co-58	<4.68E+00	0.00E+00	4.68E+00
		Fe-59	<9.44E+00	0.00E+00	9.44E+00
		Co-60	<5.61E+00	0.00E+00	5.61E+00
		Zn-65	<1.38E+01	0.00E+00	1.38E+01
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<6.75E+00	0.00E+00	6.75E+00
		I-131	<1.01E+01	0.00E+00	1.01E+01
		Cs-134	<5.64E+00	0.00E+00	5.64E+00
		Cs-137	<6.58E+00	0.00E+00	6.58E+00
		BaLa-140	<8.60E+00	0.00E+00	8.60E+00
		Be-7	<5.46E+01	0.00E+00	5.46E+01
		K-40	9.98E+01	6.79E+01	9.94E+01
		H3GW	5.08E+02	1.27E+02	1.90E+02

Sample Point 79 [INDICATOR - S @ 0.5 miles]

Sample ID: 467131	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.49E+00	0.00E+00	4.49E+00
		Co-58	<6.03E+00	0.00E+00	6.03E+00
		Fe-59	<9.48E+00	0.00E+00	9.48E+00
		Co-60	<6.04E+00	0.00E+00	6.04E+00
		Zn-65	<1.07E+01	0.00E+00	1.07E+01
		Zr-95	<8.05E+00	0.00E+00	8.05E+00
		Nb-95	<5.12E+00	0.00E+00	5.12E+00
		I-131	<7.95E+00	0.00E+00	7.95E+00
		Cs-134	<5.51E+00	0.00E+00	5.51E+00
		Cs-137	<4.57E+00	0.00E+00	4.57E+00
		BaLa-140	<6.13E+00	0.00E+00	6.13E+00
		Be-7	<5.02E+01	0.00E+00	5.02E+01
		K-40	9.86E+01	4.35E+01	3.67E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 79 [INDICATOR - S @ 0.5 miles]

Sample ID: 467131	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	3.91E+02	1.13E+02	1.71E+02
Sample ID: 474257	Sample Dates: 5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.20E+00	0.00E+00	3.20E+00
		Co-58	<3.15E+00	0.00E+00	3.15E+00
		Fe-59	<6.31E+00	0.00E+00	6.31E+00
		Co-60	<3.16E+00	0.00E+00	3.16E+00
		Zn-65	<5.72E+00	0.00E+00	5.72E+00
		Zr-95	<6.41E+00	0.00E+00	6.41E+00
		Nb-95	<3.50E+00	0.00E+00	3.50E+00
		I-131	<8.48E+00	0.00E+00	8.48E+00
		Cs-134	<3.66E+00	0.00E+00	3.66E+00
		Cs-137	<3.59E+00	0.00E+00	3.59E+00
		BaLa-140	<5.69E+00	0.00E+00	5.69E+00
		Be-7	<2.28E+01	0.00E+00	2.28E+01
		K-40	5.52E+01	3.56E+01	5.34E+01
		H3GW	2.80E+02	1.15E+02	1.82E+02
Sample ID: 481142	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.28E+00	0.00E+00	5.28E+00
		Co-58	<4.42E+00	0.00E+00	4.42E+00
		Fe-59	<1.15E+01	0.00E+00	1.15E+01
		Co-60	<8.06E+00	0.00E+00	8.06E+00
		Zn-65	<1.27E+01	0.00E+00	1.27E+01
		Zr-95	<1.10E+01	0.00E+00	1.10E+01
		Nb-95	<7.53E+00	0.00E+00	7.53E+00
		I-131	<8.21E+00	0.00E+00	8.21E+00
		Cs-134	<6.14E+00	0.00E+00	6.14E+00
		Cs-137	<4.89E+00	0.00E+00	4.89E+00
		BaLa-140	<7.95E+00	0.00E+00	7.95E+00
		Be-7	<5.12E+01	0.00E+00	5.12E+01
		K-40	1.49E+02	7.16E+01	9.27E+01
		H3GW	2.73E+02	1.16E+02	1.85E+02
Sample ID: 481212	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.53E+00	0.00E+00	5.53E+00
		Co-58	<6.98E+00	0.00E+00	6.98E+00
		Fe-59	<9.06E+00	0.00E+00	9.06E+00
		Co-60	<7.09E+00	0.00E+00	7.09E+00
		Zn-65	<1.12E+01	0.00E+00	1.12E+01
		Zr-95	<9.97E+00	0.00E+00	9.97E+00
		Nb-95	<5.28E+00	0.00E+00	5.28E+00
		I-131	<8.08E+00	0.00E+00	8.08E+00
		Cs-134	<5.01E+00	0.00E+00	5.01E+00
		Cs-137	<6.21E+00	0.00E+00	6.21E+00
		BaLa-140	<8.06E+00	0.00E+00	8.06E+00
		Be-7	<4.31E+01	0.00E+00	4.31E+01
		K-40	<9.53E+01	0.00E+00	9.53E+01
		H3GW	1.95E+02	1.17E+02	1.90E+02

Sample Point 80 [INDICATOR - S @ 0.6 miles]

Sample ID: 467132	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.51E+00	0.00E+00	3.51E+00
		Co-58	<6.05E+00	0.00E+00	6.05E+00
		Fe-59	<8.34E+00	0.00E+00	8.34E+00
		Co-60	<5.84E+00	0.00E+00	5.84E+00
		Zn-65	<1.04E+01	0.00E+00	1.04E+01
		Zr-95	<1.09E+01	0.00E+00	1.09E+01
		Nb-95	<6.67E+00	0.00E+00	6.67E+00
		I-131	<7.77E+00	0.00E+00	7.77E+00
		Cs-134	<5.70E+00	0.00E+00	5.70E+00
		Cs-137	<5.70E+00	0.00E+00	5.70E+00
		BaLa-140	<8.21E+00	0.00E+00	8.21E+00
		Be-7	<3.94E+01	0.00E+00	3.94E+01
		K-40	4.14E+01	5.02E+01	8.15E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 80 [INDICATOR - S @ 0.6 miles]

Sample ID: 467132	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	3.71E+02	1.12E+02	1.72E+02
Sample ID: 474258	Sample Dates: 5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.51E+00	0.00E+00	4.51E+00
		Co-58	<6.45E+00	0.00E+00	6.45E+00
		Fe-59	<1.19E+01	0.00E+00	1.19E+01
		Co-60	<6.71E+00	0.00E+00	6.71E+00
		Zn-65	<1.13E+01	0.00E+00	1.13E+01
		Zr-95	<9.34E+00	0.00E+00	9.34E+00
		Nb-95	<6.08E+00	0.00E+00	6.08E+00
		I-131	<8.72E+00	0.00E+00	8.72E+00
		Cs-134	<6.58E+00	0.00E+00	6.58E+00
		Cs-137	<4.79E+00	0.00E+00	4.79E+00
		BaLa-140	<9.99E+00	0.00E+00	9.99E+00
		Be-7	<4.65E+01	0.00E+00	4.65E+01
		K-40	6.60E+01	6.06E+01	9.47E+01
		H3GW	3.11E+02	1.15E+02	1.81E+02
Sample ID: 481143	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.49E+00	0.00E+00	5.49E+00
		Co-58	<4.94E+00	0.00E+00	4.94E+00
		Fe-59	<8.46E+00	0.00E+00	8.46E+00
		Co-60	<7.00E+00	0.00E+00	7.00E+00
		Zn-65	<7.61E+00	0.00E+00	7.61E+00
		Zr-95	<1.02E+01	0.00E+00	1.02E+01
		Nb-95	<7.63E+00	0.00E+00	7.63E+00
		I-131	<5.70E+00	0.00E+00	5.70E+00
		Cs-134	<5.51E+00	0.00E+00	5.51E+00
		Cs-137	<6.61E+00	0.00E+00	6.61E+00
		BaLa-140	<6.15E+00	0.00E+00	6.15E+00
		Be-7	<4.33E+01	0.00E+00	4.33E+01
		K-40	<9.89E+01	0.00E+00	9.89E+01
		H3GW	2.78E+02	1.18E+02	1.88E+02
Sample ID: 481213	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.48E+00	0.00E+00	5.48E+00
		Co-58	<4.68E+00	0.00E+00	4.68E+00
		Fe-59	<9.41E+00	0.00E+00	9.41E+00
		Co-60	<3.96E+00	0.00E+00	3.96E+00
		Zn-65	<1.14E+01	0.00E+00	1.14E+01
		Zr-95	<8.63E+00	0.00E+00	8.63E+00
		Nb-95	<4.75E+00	0.00E+00	4.75E+00
		I-131	<8.73E+00	0.00E+00	8.73E+00
		Cs-134	<6.79E+00	0.00E+00	6.79E+00
		Cs-137	<5.53E+00	0.00E+00	5.53E+00
		BaLa-140	<6.65E+00	0.00E+00	6.65E+00
		Be-7	<3.87E+01	0.00E+00	3.87E+01
		K-40	<8.58E+01	0.00E+00	8.58E+01
		H3GW	2.25E+02	1.17E+02	1.90E+02

Sample Point 81 [INDICATOR - S @ 0.6 miles]

Sample ID: 467133	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.58E+00	0.00E+00	5.58E+00
		Co-58	<6.08E+00	0.00E+00	6.08E+00
		Fe-59	<1.04E+01	0.00E+00	1.04E+01
		Co-60	<7.03E+00	0.00E+00	7.03E+00
		Zn-65	<1.24E+01	0.00E+00	1.24E+01
		Zr-95	<1.06E+01	0.00E+00	1.06E+01
		Nb-95	<6.46E+00	0.00E+00	6.46E+00
		I-131	<7.06E+00	0.00E+00	7.06E+00
		Cs-134	<5.78E+00	0.00E+00	5.78E+00
		Cs-137	<5.79E+00	0.00E+00	5.79E+00
		BaLa-140	<7.93E+00	0.00E+00	7.93E+00
		Be-7	<3.56E+01	0.00E+00	3.56E+01
		K-40	7.54E+01	6.01E+01	9.05E+01

HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 81 [INDICATOR - S @ 0.6 miles]

Sample ID: 467133	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	4.20E+02	1.14E+02	1.72E+02
Sample ID: 474259	Sample Dates: 5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.13E+00	0.00E+00	5.13E+00
		Co-58	<4.65E+00	0.00E+00	4.65E+00
		Fe-59	<1.27E+01	0.00E+00	1.27E+01
		Co-60	<4.98E+00	0.00E+00	4.98E+00
		Zn-65	<8.90E+00	0.00E+00	8.90E+00
		Zr-95	<9.82E+00	0.00E+00	9.82E+00
		Nb-95	<5.86E+00	0.00E+00	5.86E+00
		I-131	<1.04E+01	0.00E+00	1.04E+01
		Cs-134	<6.17E+00	0.00E+00	6.17E+00
		Cs-137	<5.70E+00	0.00E+00	5.70E+00
		BaLa-140	<8.64E+00	0.00E+00	8.64E+00
		Be-7	<5.09E+01	0.00E+00	5.09E+01
		K-40	2.67E+01	4.74E+01	8.10E+01
		H3GW	2.68E+02	1.14E+02	1.82E+02
Sample ID: 481144	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.55E+00	0.00E+00	4.55E+00
		Co-58	<4.75E+00	0.00E+00	4.75E+00
		Fe-59	<1.28E+01	0.00E+00	1.28E+01
		Co-60	<7.74E+00	0.00E+00	7.74E+00
		Zn-65	<1.07E+01	0.00E+00	1.07E+01
		Zr-95	<1.08E+01	0.00E+00	1.08E+01
		Nb-95	<5.69E+00	0.00E+00	5.69E+00
		I-131	<9.39E+00	0.00E+00	9.39E+00
		Cs-134	<5.08E+00	0.00E+00	5.08E+00
		Cs-137	<4.90E+00	0.00E+00	4.90E+00
		BaLa-140	<8.39E+00	0.00E+00	8.39E+00
		Be-7	<4.94E+01	0.00E+00	4.94E+01
		K-40	<8.31E+01	0.00E+00	8.31E+01
		H3GW	3.21E+02	1.17E+02	1.85E+02
Sample ID: 481214	Sample Dates: 11/14/2018 - 11/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.75E+00	0.00E+00	4.75E+00
		Co-58	<4.44E+00	0.00E+00	4.44E+00
		Fe-59	<9.22E+00	0.00E+00	9.22E+00
		Co-60	<3.74E+00	0.00E+00	3.74E+00
		Zn-65	<8.53E+00	0.00E+00	8.53E+00
		Zr-95	<9.36E+00	0.00E+00	9.36E+00
		Nb-95	<4.88E+00	0.00E+00	4.88E+00
		I-131	<1.10E+01	0.00E+00	1.10E+01
		Cs-134	<4.96E+00	0.00E+00	4.96E+00
		Cs-137	<3.53E+00	0.00E+00	3.53E+00
		BaLa-140	<6.46E+00	0.00E+00	6.46E+00
		Be-7	<3.12E+01	0.00E+00	3.12E+01
		K-40	1.15E+02	3.33E+01	4.98E+01
		H3GW	2.88E+02	1.19E+02	1.90E+02

Sample Point 82 [INDICATOR - S @ 0.6 miles]

Sample ID: 467134	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.09E+00	0.00E+00	3.09E+00
		Co-58	<3.54E+00	0.00E+00	3.54E+00
		Fe-59	<7.45E+00	0.00E+00	7.45E+00
		Co-60	<3.50E+00	0.00E+00	3.50E+00
		Zn-65	<6.44E+00	0.00E+00	6.44E+00
		Zr-95	<6.53E+00	0.00E+00	6.53E+00
		Nb-95	<3.76E+00	0.00E+00	3.76E+00
		I-131	<4.84E+00	0.00E+00	4.84E+00
		Cs-134	<4.39E+00	0.00E+00	4.39E+00
		Cs-137	<2.60E+00	0.00E+00	2.60E+00
		BaLa-140	<5.27E+00	0.00E+00	5.27E+00
		Be-7	<3.12E+01	0.00E+00	3.12E+01
		K-40	6.23E+01	3.92E+01	5.78E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 82 [INDICATOR - S @ 0.6 miles]

Sample ID: 467134	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	<9.86E+01	0.00E+00	1.72E+02
Sample ID: 474260	Sample Dates: 5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.55E+00	0.00E+00	5.55E+00
		Co-58	<5.44E+00	0.00E+00	5.44E+00
		Fe-59	<7.59E+00	0.00E+00	7.59E+00
		Co-60	<5.28E+00	0.00E+00	5.28E+00
		Zn-65	<1.08E+01	0.00E+00	1.08E+01
		Zr-95	<9.14E+00	0.00E+00	9.14E+00
		Nb-95	<4.41E+00	0.00E+00	4.41E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<5.53E+00	0.00E+00	5.53E+00
		Cs-137	<5.52E+00	0.00E+00	5.52E+00
		BaLa-140	<1.02E+01	0.00E+00	1.02E+01
		Be-7	<3.72E+01	0.00E+00	3.72E+01
		K-40	<9.03E+01	0.00E+00	9.03E+01
		H3GW	<1.65E+02	0.00E+00	1.82E+02
Sample ID: 481145	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.86E+00	0.00E+00	5.86E+00
		Co-58	<5.10E+00	0.00E+00	5.10E+00
		Fe-59	<1.25E+01	0.00E+00	1.25E+01
		Co-60	<4.96E+00	0.00E+00	4.96E+00
		Zn-65	<1.37E+01	0.00E+00	1.37E+01
		Zr-95	<8.88E+00	0.00E+00	8.88E+00
		Nb-95	<5.80E+00	0.00E+00	5.80E+00
		I-131	<7.27E+00	0.00E+00	7.27E+00
		Cs-134	<6.78E+00	0.00E+00	6.78E+00
		Cs-137	<4.01E+00	0.00E+00	4.01E+00
		BaLa-140	<6.99E+00	0.00E+00	6.99E+00
		Be-7	<3.81E+01	0.00E+00	3.81E+01
		K-40	<1.06E+02	0.00E+00	1.06E+02
		H3GW	<9.28E+01	0.00E+00	1.84E+02
Sample ID: 481215	Sample Dates: 11/13/2018 - 11/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.59E+00	0.00E+00	4.59E+00
		Co-58	<4.53E+00	0.00E+00	4.53E+00
		Fe-59	<9.68E+00	0.00E+00	9.68E+00
		Co-60	<4.44E+00	0.00E+00	4.44E+00
		Zn-65	<1.11E+01	0.00E+00	1.11E+01
		Zr-95	<9.10E+00	0.00E+00	9.10E+00
		Nb-95	<7.75E+00	0.00E+00	7.75E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<5.50E+00	0.00E+00	5.50E+00
		Cs-137	<4.39E+00	0.00E+00	4.39E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<4.78E+01	0.00E+00	4.78E+01
		K-40	4.87E+01	5.18E+01	8.28E+01
		H3GW	<3.37E+01	0.00E+00	1.90E+02

Sample Point 83 [INDICATOR - SSW @ 1.6 miles]

Sample ID: 467135	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.28E+00	0.00E+00	5.28E+00
		Co-58	<7.08E+00	0.00E+00	7.08E+00
		Fe-59	<1.34E+01	0.00E+00	1.34E+01
		Co-60	<4.15E+00	0.00E+00	4.15E+00
		Zn-65	<1.44E+01	0.00E+00	1.44E+01
		Zr-95	<9.41E+00	0.00E+00	9.41E+00
		Nb-95	<7.47E+00	0.00E+00	7.47E+00
		I-131	<8.40E+00	0.00E+00	8.40E+00
		Cs-134	<8.16E+00	0.00E+00	8.16E+00
		Cs-137	<8.16E+00	0.00E+00	8.16E+00
		BaLa-140	<7.53E+00	0.00E+00	7.53E+00
		Be-7	<4.85E+01	0.00E+00	4.85E+01
		K-40	<9.53E+01	0.00E+00	9.53E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: GROUND WATER Concentration (Activity): pCi/l

Sample Point 83 [INDICATOR - SSW @ 1.6 miles]

Sample ID: 467135	Sample Dates: 2/21/2018 - 2/21/2018	Nuclide	Activity	2 Sigma Error	MDA
		H3GW	1.16E+03	1.36E+02	1.72E+02
Sample ID: 474261	Sample Dates: 5/8/2018 - 5/8/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.55E+00	0.00E+00	5.55E+00
		Co-58	<6.00E+00	0.00E+00	6.00E+00
		Fe-59	<1.15E+01	0.00E+00	1.15E+01
		Co-60	<5.86E+00	0.00E+00	5.86E+00
		Zn-65	<1.04E+01	0.00E+00	1.04E+01
		Zr-95	<1.16E+01	0.00E+00	1.16E+01
		Nb-95	<6.61E+00	0.00E+00	6.61E+00
		I-131	<1.05E+01	0.00E+00	1.05E+01
		Cs-134	<5.34E+00	0.00E+00	5.34E+00
		Cs-137	<5.81E+00	0.00E+00	5.81E+00
		BaLa-140	<8.50E+00	0.00E+00	8.50E+00
		Be-7	<3.94E+01	0.00E+00	3.94E+01
		K-40	<1.03E+02	0.00E+00	1.03E+02
		H3GW	1.11E+03	1.39E+02	1.82E+02
Sample ID: 481146	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<6.46E+00	0.00E+00	6.46E+00
		Co-58	<5.79E+00	0.00E+00	5.79E+00
		Fe-59	<1.18E+01	0.00E+00	1.18E+01
		Co-60	<6.68E+00	0.00E+00	6.68E+00
		Zn-65	<1.44E+01	0.00E+00	1.44E+01
		Zr-95	<9.73E+00	0.00E+00	9.73E+00
		Nb-95	<7.86E+00	0.00E+00	7.86E+00
		I-131	<7.45E+00	0.00E+00	7.45E+00
		Cs-134	<6.45E+00	0.00E+00	6.45E+00
		Cs-137	<7.61E+00	0.00E+00	7.61E+00
		BaLa-140	<7.84E+00	0.00E+00	7.84E+00
		Be-7	<5.41E+01	0.00E+00	5.41E+01
		K-40	<1.19E+02	0.00E+00	1.19E+02
		H3GW	1.05E+03	1.38E+02	1.85E+02
Sample ID: 481216	Sample Dates: 11/13/2018 - 11/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.00E+00	0.00E+00	5.00E+00
		Co-58	<4.94E+00	0.00E+00	4.94E+00
		Fe-59	<1.11E+01	0.00E+00	1.11E+01
		Co-60	<3.95E+00	0.00E+00	3.95E+00
		Zn-65	<8.62E+00	0.00E+00	8.62E+00
		Zr-95	<8.32E+00	0.00E+00	8.32E+00
		Nb-95	<4.65E+00	0.00E+00	4.65E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<4.71E+00	0.00E+00	4.71E+00
		Cs-137	<4.44E+00	0.00E+00	4.44E+00
		BaLa-140	<1.12E+01	0.00E+00	1.12E+01
		Be-7	<3.38E+01	0.00E+00	3.38E+01
		K-40	6.08E+01	3.83E+01	5.40E+01
		H3GW	1.07E+03	1.42E+02	1.90E+02

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID: 464912	Sample Dates: 1/2/2018 - 1/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.36E-01	0.00E+00	6.36E-01
		I-131	<1.07E+01	0.00E+00	1.07E+01
		Cs-134	<6.91E+00	0.00E+00	6.91E+00
		Cs-137	<6.97E+00	0.00E+00	6.97E+00
		BaLa-140	<8.02E+00	0.00E+00	8.02E+00
		Be-7	<6.26E+01	0.00E+00	6.26E+01
		K-40	1.16E+03	2.05E+02	1.15E+02
Sample ID: 464914	Sample Dates: 2/5/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.48E-01	0.00E+00	6.48E-01
		I-131	<8.57E+00	0.00E+00	8.57E+00
		Cs-134	<6.67E+00	0.00E+00	6.67E+00
		Cs-137	<8.89E+00	0.00E+00	8.89E+00



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Media Type: MILK Concentration (Activity): pCi/l

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID: 464914	Sample Dates: 2/5/2018 - 2/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<8.17E+00	0.00E+00	8.17E+00
		Be-7	<3.94E+01	0.00E+00	3.94E+01
		K-40	1.48E+03	2.43E+02	1.30E+02
Sample ID: 466333	Sample Dates: 3/5/2018 - 3/5/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<5.49E-01	0.00E+00	5.49E-01
		I-131	<8.29E+00	0.00E+00	8.29E+00
		Cs-134	<8.24E+00	0.00E+00	8.24E+00
		Cs-137	<6.37E+00	0.00E+00	6.37E+00
		BaLa-140	<7.97E+00	0.00E+00	7.97E+00
		Be-7	<4.60E+01	0.00E+00	4.60E+01
Sample ID: 468381	Sample Dates: 4/2/2018 - 4/2/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<5.80E-01	0.00E+00	5.80E-01
		I-131	<5.90E+00	0.00E+00	5.90E+00
		Cs-134	<5.84E+00	0.00E+00	5.84E+00
		Cs-137	<8.35E+00	0.00E+00	8.35E+00
		BaLa-140	<9.16E+00	0.00E+00	9.16E+00
		Be-7	<5.10E+01	0.00E+00	5.10E+01
Sample ID: 471103	Sample Dates: 4/30/2018 - 4/30/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.23E-01	0.00E+00	6.23E-01
		I-131	<6.76E+00	0.00E+00	6.76E+00
		Cs-134	<8.33E+00	0.00E+00	8.33E+00
		Cs-137	<9.55E+00	0.00E+00	9.55E+00
		BaLa-140	<6.51E+00	0.00E+00	6.51E+00
		Be-7	<5.22E+01	0.00E+00	5.22E+01
Sample ID: 473574	Sample Dates: 5/29/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.49E-01	0.00E+00	6.49E-01
		I-131	<6.17E+00	0.00E+00	6.17E+00
		Cs-134	<8.61E+00	0.00E+00	8.61E+00
		Cs-137	<4.45E+00	0.00E+00	4.45E+00
		BaLa-140	<7.61E+00	0.00E+00	7.61E+00
		Be-7	<4.78E+01	0.00E+00	4.78E+01
Sample ID: 474460	Sample Dates: 6/11/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<5.37E-01	0.00E+00	5.37E-01
		I-131	<5.72E+00	0.00E+00	5.72E+00
		Cs-134	<6.30E+00	0.00E+00	6.30E+00
		Cs-137	<6.54E+00	0.00E+00	6.54E+00
		BaLa-140	<7.43E+00	0.00E+00	7.43E+00
		Be-7	<4.64E+01	0.00E+00	4.64E+01
Sample ID: 475150	Sample Dates: 6/25/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<5.99E-01	0.00E+00	5.99E-01
		I-131	<7.01E+00	0.00E+00	7.01E+00
		Cs-134	<8.77E+00	0.00E+00	8.77E+00
		Cs-137	<6.40E+00	0.00E+00	6.40E+00
		BaLa-140	<1.05E+01	0.00E+00	1.05E+01
		Be-7	<3.93E+01	0.00E+00	3.93E+01
Sample ID: 476298	Sample Dates: 7/9/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.35E-01	0.00E+00	6.35E-01
		I-131	<6.62E+00	0.00E+00	6.62E+00
		Cs-134	<8.80E+00	0.00E+00	8.80E+00
		Cs-137	<6.43E+00	0.00E+00	6.43E+00
		BaLa-140	<8.11E+00	0.00E+00	8.11E+00
		Be-7	<5.46E+01	0.00E+00	5.46E+01



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Media Type: MILK Concentration (Activity): pCi/l

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID: 478043	Sample Dates: 7/23/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.07E-01	0.00E+00	6.07E-01
		I-131	<6.92E+00	0.00E+00	6.92E+00
		Cs-134	<9.05E+00	0.00E+00	9.05E+00
		Cs-137	<6.29E+00	0.00E+00	6.29E+00
		BaLa-140	<6.31E+00	0.00E+00	6.31E+00
		Be-7	<4.83E+01	0.00E+00	4.83E+01
		K-40	1.52E+03	2.36E+02	7.60E+01
Sample ID: 478693	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<4.52E-01	0.00E+00	4.52E-01
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<7.44E+00	0.00E+00	7.44E+00
		Cs-137	<6.54E+00	0.00E+00	6.54E+00
		BaLa-140	<8.03E+00	0.00E+00	8.03E+00
		Be-7	<7.09E+01	0.00E+00	7.09E+01
		K-40	1.21E+03	2.06E+02	8.94E+01
Sample ID: 479790	Sample Dates: 8/20/2018 - 8/20/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.48E-01	0.00E+00	6.48E-01
		I-131	<6.22E+00	0.00E+00	6.22E+00
		Cs-134	<6.63E+00	0.00E+00	6.63E+00
		Cs-137	<6.40E+00	0.00E+00	6.40E+00
		BaLa-140	<7.73E+00	0.00E+00	7.73E+00
		Be-7	<5.86E+01	0.00E+00	5.86E+01
		K-40	1.54E+03	2.43E+02	1.18E+02
Sample ID: 480189	Sample Dates: 9/4/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.35E-01	0.00E+00	6.35E-01
		I-131	<7.24E+00	0.00E+00	7.24E+00
		Cs-134	<7.40E+00	0.00E+00	7.40E+00
		Cs-137	<7.36E+00	0.00E+00	7.36E+00
		BaLa-140	<8.97E+00	0.00E+00	8.97E+00
		Be-7	<5.87E+01	0.00E+00	5.87E+01
		K-40	1.43E+03	2.23E+02	1.73E+01
Sample ID: 481454	Sample Dates: 9/17/2018 - 9/17/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<6.26E-01	0.00E+00	6.26E-01
		I-131	<7.10E+00	0.00E+00	7.10E+00
		Cs-134	<5.10E+00	0.00E+00	5.10E+00
		Cs-137	<6.85E+00	0.00E+00	6.85E+00
		BaLa-140	<6.39E+00	0.00E+00	6.39E+00
		Be-7	<5.45E+01	0.00E+00	5.45E+01
		K-40	1.45E+03	2.34E+02	1.09E+02
Sample ID: 482425	Sample Dates: 10/1/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<5.90E-01	0.00E+00	5.90E-01
		I-131	<6.05E+00	0.00E+00	6.05E+00
		Cs-134	<8.33E+00	0.00E+00	8.33E+00
		Cs-137	<9.23E+00	0.00E+00	9.23E+00
		BaLa-140	<6.49E+00	0.00E+00	6.49E+00
		Be-7	<5.72E+01	0.00E+00	5.72E+01
		K-40	1.45E+03	2.34E+02	8.12E+01
Sample ID: 483378	Sample Dates: 10/15/2018 - 10/15/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<5.80E-01	0.00E+00	5.80E-01
		I-131	<6.42E+00	0.00E+00	6.42E+00
		Cs-134	<7.24E+00	0.00E+00	7.24E+00
		Cs-137	<7.33E+00	0.00E+00	7.33E+00
		BaLa-140	<6.07E+00	0.00E+00	6.07E+00
		Be-7	<4.23E+01	0.00E+00	4.23E+01
		K-40	1.54E+03	2.47E+02	1.40E+02
Sample ID: 484533	Sample Dates: 10/29/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		LLI-131	<5.16E-01	0.00E+00	5.16E-01
		I-131	<6.01E+00	0.00E+00	6.01E+00
		Cs-134	<8.25E+00	0.00E+00	8.25E+00
		Cs-137	<8.21E+00	0.00E+00	8.21E+00
		BaLa-140	<9.55E+00	0.00E+00	9.55E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: MILK Concentration (Activity): pCi/l

Sample Point 5 [CONTROL - WNW @ 12 miles]

Sample ID:	484533	Sample Dates:	10/29/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Be-7	<5.17E+01	0.00E+00	5.17E+01
				K-40	1.23E+03	2.23E+02	1.42E+02

Sample ID:	485412	Sample Dates:	11/12/2018 - 11/12/2018	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<6.29E-01	0.00E+00	6.29E-01
				I-131	<6.27E+00	0.00E+00	6.27E+00
				Cs-134	<8.32E+00	0.00E+00	8.32E+00
				Cs-137	<7.36E+00	0.00E+00	7.36E+00
				BaLa-140	<5.88E+00	0.00E+00	5.88E+00
				Be-7	<5.14E+01	0.00E+00	5.14E+01
				K-40	1.51E+03	2.37E+02	9.80E+01

Sample ID:	486631	Sample Dates:	12/11/2018 - 12/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				LLI-131	<6.35E-01	0.00E+00	6.35E-01
				I-131	<7.05E+00	0.00E+00	7.05E+00
				Cs-134	<7.74E+00	0.00E+00	7.74E+00
				Cs-137	<4.51E+00	0.00E+00	4.51E+00
				BaLa-140	<2.34E+00	0.00E+00	2.34E+00
				Be-7	<4.91E+01	0.00E+00	4.91E+01
				K-40	1.60E+03	2.45E+02	9.13E+01

Sample Point 102 [INDICATOR - W @ 2.82 miles]

Sample ID:	473573	Sample Dates:	5/29/2018 - 5/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<7.16E+00	0.00E+00	7.16E+00
				Cs-134	<9.20E+00	0.00E+00	9.20E+00
				Cs-137	<6.89E+00	0.00E+00	6.89E+00
				BaLa-140	<9.06E+00	0.00E+00	9.06E+00
				Be-7	<7.45E+01	0.00E+00	7.45E+01
				K-40	1.66E+03	2.50E+02	8.34E+01
				LLI-131	<8.75E-01	0.00E+00	8.75E-01

Sample ID:	474459	Sample Dates:	6/11/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<7.53E+00	0.00E+00	7.53E+00
				Cs-134	<5.13E+00	0.00E+00	5.13E+00
				Cs-137	<7.75E+00	0.00E+00	7.75E+00
				BaLa-140	<6.13E+00	0.00E+00	6.13E+00
				Be-7	<3.88E+01	0.00E+00	3.88E+01
				K-40	1.87E+03	2.85E+02	1.79E+02
				LLI-131	<5.35E-01	0.00E+00	5.35E-01

Sample ID:	475149	Sample Dates:	6/25/2018 - 6/25/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<6.85E+00	0.00E+00	6.85E+00
				Cs-134	<6.88E+00	0.00E+00	6.88E+00
				Cs-137	<6.96E+00	0.00E+00	6.96E+00
				BaLa-140	<2.29E+00	0.00E+00	2.29E+00
				Be-7	<5.89E+01	0.00E+00	5.89E+01
				K-40	1.50E+03	2.30E+02	1.73E+01
				LLI-131	<7.32E-01	0.00E+00	7.32E-01

Sample ID:	476297	Sample Dates:	7/9/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<7.43E+00	0.00E+00	7.43E+00
				Cs-134	<4.31E+00	0.00E+00	4.31E+00
				Cs-137	<8.63E+00	0.00E+00	8.63E+00
				BaLa-140	<8.57E+00	0.00E+00	8.57E+00
				Be-7	<5.79E+01	0.00E+00	5.79E+01
				K-40	1.87E+03	2.80E+02	1.17E+02
				LLI-131	<5.58E-01	0.00E+00	5.58E-01

Sample ID:	478042	Sample Dates:	7/23/2018 - 7/23/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<5.90E+00	0.00E+00	5.90E+00
				Cs-134	<7.39E+00	0.00E+00	7.39E+00
				Cs-137	<9.01E+00	0.00E+00	9.01E+00
				BaLa-140	<9.04E+00	0.00E+00	9.04E+00
				Be-7	<4.96E+01	0.00E+00	4.96E+01
				K-40	2.07E+03	2.90E+02	1.21E+02
				LLI-131	<6.79E-01	0.00E+00	6.79E-01



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Media Type: MILK Concentration (Activity): pCi/l

Sample Point 102 [INDICATOR - W @ 2.82 miles]

Sample ID: 478692	Sample Dates: 8/6/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		I-131	<1.25E+01	0.00E+00	1.25E+01
		Cs-134	<1.15E+01	0.00E+00	1.15E+01
		Cs-137	<7.34E+00	0.00E+00	7.34E+00
		BaLa-140	<1.06E+01	0.00E+00	1.06E+01
		Be-7	<7.02E+01	0.00E+00	7.02E+01
		K-40	1.71E+03	2.56E+02	9.80E+01
Sample ID: 479789	Sample Dates: 8/20/2018 - 8/20/2018	LLI-131	<9.75E-01	0.00E+00	9.75E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.37E+00	0.00E+00	6.37E+00
		Cs-134	<7.38E+00	0.00E+00	7.38E+00
		Cs-137	<8.71E+00	0.00E+00	8.71E+00
		BaLa-140	<5.90E+00	0.00E+00	5.90E+00
		Be-7	<5.39E+01	0.00E+00	5.39E+01
Sample ID: 480188	Sample Dates: 9/4/2018 - 9/4/2018	K-40	1.73E+03	2.54E+02	7.96E+01
		LLI-131	<6.39E-01	0.00E+00	6.39E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.09E+00	0.00E+00	6.09E+00
		Cs-134	<1.00E+01	0.00E+00	1.00E+01
		Cs-137	<6.89E+00	0.00E+00	6.89E+00
		BaLa-140	<6.45E+00	0.00E+00	6.45E+00
Sample ID: 481453	Sample Dates: 9/17/2018 - 9/17/2018	Be-7	<5.19E+01	0.00E+00	5.19E+01
		K-40	1.70E+03	2.57E+02	1.10E+02
		LLI-131	<4.79E-01	0.00E+00	4.79E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<9.03E+00	0.00E+00	9.03E+00
		Cs-134	<7.25E+00	0.00E+00	7.25E+00
		Cs-137	<7.33E+00	0.00E+00	7.33E+00
Sample ID: 482424	Sample Dates: 10/1/2018 - 10/1/2018	BaLa-140	<8.23E+00	0.00E+00	8.23E+00
		Be-7	<5.21E+01	0.00E+00	5.21E+01
		K-40	1.65E+03	2.49E+02	7.53E+01
		LLI-131	<5.28E-01	0.00E+00	5.28E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<7.50E+00	0.00E+00	7.50E+00
		Cs-134	<7.79E+00	0.00E+00	7.79E+00
Sample ID: 483377	Sample Dates: 10/15/2018 - 10/15/2018	Cs-137	<8.51E+00	0.00E+00	8.51E+00
		BaLa-140	<6.38E+00	0.00E+00	6.38E+00
		Be-7	<5.92E+01	0.00E+00	5.92E+01
		K-40	1.81E+03	2.70E+02	1.29E+02
		LLI-131	<5.28E-01	0.00E+00	5.28E-01
		Nuclide	Activity	2 Sigma Error	MDA
		I-131	<6.17E+00	0.00E+00	6.17E+00
Sample ID: 484532	Sample Dates: 10/29/2018 - 10/29/2018	Cs-134	<8.15E+00	0.00E+00	8.15E+00
		Cs-137	<1.10E+01	0.00E+00	1.10E+01
		BaLa-140	<7.62E+00	0.00E+00	7.62E+00
		Be-7	<4.78E+01	0.00E+00	4.78E+01
		K-40	1.88E+03	2.70E+02	7.62E+01
		LLI-131	<7.44E-01	0.00E+00	7.44E-01
		Nuclide	Activity	2 Sigma Error	MDA
Sample ID: 486182	Sample Dates: 1/19/2018 - 1/19/2018	I-131	<4.39E+00	0.00E+00	4.39E+00
		Cs-134	<5.57E+00	0.00E+00	5.57E+00
		Cs-137	5.89E+00	4.06E+00	5.99E+00
		BaLa-140	<4.29E+00	0.00E+00	4.29E+00
		Be-7	<3.57E+01	0.00E+00	3.57E+01
		K-40	2.01E+03	2.30E+02	6.48E+01
		LLI-131	<9.93E-01	0.00E+00	9.93E-01

Media Type: SEDIMENT_BOTTOM Concentration (Activity): pCi/kg dry

Sample Point 52 [INDICATOR - S @ 3.8 miles]

Sample ID: 466182	Sample Dates: 1/19/2018 - 1/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<5.97E+01	0.00E+00	5.97E+01



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Media Type: SEDIMENT_BOTTOM Concentration (Activity): pCi/kg dry

Sample Point 52 [INDICATOR - S @ 3.8 miles]

Sample ID: 466182	Sample Dates: 1/19/2018 - 1/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Co-58	<3.87E+01	0.00E+00	3.87E+01
		Fe-59	<9.34E+01	0.00E+00	9.34E+01
		Co-60	1.64E+02	6.19E+01	6.68E+01
		Zn-65	<1.21E+02	0.00E+00	1.21E+02
		Zr-95	<7.99E+01	0.00E+00	7.99E+01
		Nb-95	<5.43E+01	0.00E+00	5.43E+01
		I-131	<9.02E+01	0.00E+00	9.02E+01
		Cs-134	<6.14E+01	0.00E+00	6.14E+01
		Cs-137	8.28E+01	4.16E+01	5.49E+01
		Be-7	<4.09E+02	0.00E+00	4.09E+02
		K-40	7.94E+03	1.40E+03	1.05E+03
		Co-57	<3.21E+01	0.00E+00	3.21E+01
		Mo-99	<3.30E+03	0.00E+00	3.30E+03
		Ag-110M	<3.56E+01	0.00E+00	3.56E+01
		Sb-122	<5.59E+02	0.00E+00	5.59E+02
		Sb-125	<1.12E+02	0.00E+00	1.12E+02

Sample ID: 479869	Sample Dates: 7/13/2018 - 7/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.44E+01	0.00E+00	4.44E+01
		Co-58	<4.56E+01	0.00E+00	4.56E+01
		Fe-59	<9.01E+01	0.00E+00	9.01E+01
		Co-60	1.90E+02	6.58E+01	7.29E+01
		Zn-65	<7.22E+01	0.00E+00	7.22E+01
		Zr-95	<1.05E+02	0.00E+00	1.05E+02
		Nb-95	<5.88E+01	0.00E+00	5.88E+01
		I-131	<5.44E+01	0.00E+00	5.44E+01
		Cs-134	<7.27E+01	0.00E+00	7.27E+01
		Cs-137	1.67E+02	9.24E+01	1.42E+02
		Be-7	<4.62E+02	0.00E+00	4.62E+02
		K-40	1.01E+04	1.48E+03	6.99E+02
		Co-57	<3.05E+01	0.00E+00	3.05E+01
		Mo-99	<1.69E+03	0.00E+00	1.69E+03
		Ag-110M	<3.97E+01	0.00E+00	3.97E+01
		Sb-122	<2.58E+02	0.00E+00	2.58E+02
		Sb-125	<1.30E+02	0.00E+00	1.30E+02

Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg dry

Sample Point 26 [INDICATOR - S @ 4.6 miles]

Sample ID: 466192	Sample Dates: 1/19/2018 - 1/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.37E+01	0.00E+00	2.37E+01
		Co-58	<2.51E+01	0.00E+00	2.51E+01
		Fe-59	<5.87E+01	0.00E+00	5.87E+01
		Co-60	<2.04E+01	0.00E+00	2.04E+01
		Zn-65	<6.79E+01	0.00E+00	6.79E+01
		Zr-95	<5.56E+01	0.00E+00	5.56E+01
		Nb-95	<3.01E+01	0.00E+00	3.01E+01
		I-131	<4.54E+01	0.00E+00	4.54E+01
		Cs-134	<3.42E+01	0.00E+00	3.42E+01
		Cs-137	<2.31E+01	0.00E+00	2.31E+01
		Be-7	<2.12E+02	0.00E+00	2.12E+02
		K-40	1.47E+04	1.53E+03	4.09E+02
		Co-57	<1.88E+01	0.00E+00	1.88E+01
		Mo-99	<2.32E+03	0.00E+00	2.32E+03
		Ag-110M	<2.35E+01	0.00E+00	2.35E+01
		Sb-122	<3.73E+02	0.00E+00	3.73E+02
		Sb-125	<5.61E+01	0.00E+00	5.61E+01

Sample ID: 479876	Sample Dates: 7/13/2018 - 7/13/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.06E+01	0.00E+00	2.06E+01
		Co-58	<1.77E+01	0.00E+00	1.77E+01
		Fe-59	<3.44E+01	0.00E+00	3.44E+01
		Co-60	<2.43E+01	0.00E+00	2.43E+01
		Zn-65	<3.78E+01	0.00E+00	3.78E+01
		Zr-95	<3.24E+01	0.00E+00	3.24E+01
		Nb-95	<2.17E+01	0.00E+00	2.17E+01



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Media Type: SEDIMENT_SHORE Concentration (Activity): pCi/kg dry

Sample Point 26 [INDICATOR - S @ 4.6 miles]

Sample ID:	479876	Sample Dates:	7/13/2018 - 7/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				I-131	<2.18E+01	0.00E+00	2.18E+01
				Cs-134	<2.32E+01	0.00E+00	2.32E+01
				Cs-137	<1.86E+01	0.00E+00	1.86E+01
				Be-7	1.17E+02	1.23E+02	2.00E+02
				K-40	9.44E+03	1.01E+03	2.07E+02
				Co-57	<1.31E+01	0.00E+00	1.31E+01
				Mo-99	<5.68E+02	0.00E+00	5.68E+02
				Ag-110M	<1.37E+01	0.00E+00	1.37E+01
				Sb-122	<9.29E+01	0.00E+00	9.29E+01
				Sb-125	<3.34E+01	0.00E+00	3.34E+01

Sample Point 41 [INDICATOR - S @ 3.8 miles]

Sample ID:	466193	Sample Dates:	1/19/2018 - 1/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.96E+01	0.00E+00	1.96E+01
				Co-58	<1.81E+01	0.00E+00	1.81E+01
				Fe-59	<5.10E+01	0.00E+00	5.10E+01
				Co-60	<2.09E+01	0.00E+00	2.09E+01
				Zn-65	<5.47E+01	0.00E+00	5.47E+01
				Zr-95	<3.54E+01	0.00E+00	3.54E+01
				Nb-95	<1.96E+01	0.00E+00	1.96E+01
				I-131	<2.88E+01	0.00E+00	2.88E+01
				Cs-134	<2.57E+01	0.00E+00	2.57E+01
				Cs-137	<2.42E+01	0.00E+00	2.42E+01
				Be-7	<1.69E+02	0.00E+00	1.69E+02
				K-40	1.16E+04	1.21E+03	3.05E+02
				Co-57	<1.38E+01	0.00E+00	1.38E+01
				Mo-99	<1.69E+03	0.00E+00	1.69E+03
				Ag-110M	<2.01E+01	0.00E+00	2.01E+01
				Sb-122	<2.66E+02	0.00E+00	2.66E+02
				Sb-125	<3.58E+01	0.00E+00	3.58E+01

Sample ID:	479877	Sample Dates:	7/13/2018 - 7/13/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.65E+01	0.00E+00	1.65E+01
				Co-58	<1.69E+01	0.00E+00	1.69E+01
				Fe-59	<4.57E+01	0.00E+00	4.57E+01
				Co-60	<2.46E+01	0.00E+00	2.46E+01
				Zn-65	<5.07E+01	0.00E+00	5.07E+01
				Zr-95	<2.95E+01	0.00E+00	2.95E+01
				Nb-95	<2.02E+01	0.00E+00	2.02E+01
				I-131	<2.20E+01	0.00E+00	2.20E+01
				Cs-134	<2.27E+01	0.00E+00	2.27E+01
				Cs-137	<1.64E+01	0.00E+00	1.64E+01
				Be-7	2.37E+02	1.36E+02	2.01E+02
				K-40	1.10E+04	1.17E+03	1.43E+02
				Co-57	<1.39E+01	0.00E+00	1.39E+01
				Mo-99	<5.17E+02	0.00E+00	5.17E+02
				Ag-110M	<1.56E+01	0.00E+00	1.56E+01
				Sb-122	<7.05E+01	0.00E+00	7.05E+01
				Sb-125	<3.16E+01	0.00E+00	3.16E+01

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	466968	Sample Dates:	12/26/2017 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.96E+00	1.03E+00	1.51E+00
				Mn-54	<3.79E+00	0.00E+00	3.79E+00
				Co-58	<4.20E+00	0.00E+00	4.20E+00
				Fe-59	<7.57E+00	0.00E+00	7.57E+00
				Co-60	<3.46E+00	0.00E+00	3.46E+00
				Zn-65	<7.09E+00	0.00E+00	7.09E+00
				Zr-95	<6.15E+00	0.00E+00	6.15E+00
				Nb-95	<4.70E+00	0.00E+00	4.70E+00
				I-131	<1.18E+01	0.00E+00	1.18E+01
				Cs-134	<3.18E+00	0.00E+00	3.18E+00
				Cs-137	<4.20E+00	0.00E+00	4.20E+00



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Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 466968	Sample Dates: 12/26/2017 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<8.10E+00	0.00E+00	8.10E+00
		Be-7	<3.50E+01	0.00E+00	3.50E+01
		K-40	<7.96E+01	0.00E+00	7.96E+01
		H3SW	6.86E+03	2.50E+02	1.78E+02
Sample ID: 468749	Sample Dates: 1/22/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.91E+00	1.05E+00	1.46E+00
		Mn-54	<3.14E+00	0.00E+00	3.14E+00
		Co-58	<3.20E+00	0.00E+00	3.20E+00
		Fe-59	<8.08E+00	0.00E+00	8.08E+00
		Co-60	<2.24E+00	0.00E+00	2.24E+00
		Zn-65	<8.39E+00	0.00E+00	8.39E+00
		Zr-95	<6.50E+00	0.00E+00	6.50E+00
		Nb-95	<4.15E+00	0.00E+00	4.15E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<3.76E+00	0.00E+00	3.76E+00
		Cs-137	<3.50E+00	0.00E+00	3.50E+00
		BaLa-140	<1.00E+01	0.00E+00	1.00E+01
		Be-7	<2.59E+01	0.00E+00	2.59E+01
		K-40	2.99E+01	2.69E+01	4.07E+01
		H3SW	1.28E+04	3.30E+02	1.85E+02
Sample ID: 471705	Sample Dates: 2/19/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.95E+00	9.02E-01	1.20E+00
		Mn-54	<3.12E+00	0.00E+00	3.12E+00
		Co-58	<3.47E+00	0.00E+00	3.47E+00
		Fe-59	<5.48E+00	0.00E+00	5.48E+00
		Co-60	<3.26E+00	0.00E+00	3.26E+00
		Zn-65	<7.08E+00	0.00E+00	7.08E+00
		Zr-95	<7.03E+00	0.00E+00	7.03E+00
		Nb-95	<4.46E+00	0.00E+00	4.46E+00
		I-131	<1.12E+01	0.00E+00	1.12E+01
		Cs-134	<3.33E+00	0.00E+00	3.33E+00
		Cs-137	<3.35E+00	0.00E+00	3.35E+00
		BaLa-140	<9.70E+00	0.00E+00	9.70E+00
		Be-7	<2.78E+01	0.00E+00	2.78E+01
		K-40	7.41E+01	2.85E+01	2.23E+01
		H3SW	1.16E+04	3.15E+02	1.91E+02
Sample ID: 473623	Sample Dates: 3/19/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	6.67E+00	1.07E+00	1.37E+00
		Mn-54	<2.93E+00	0.00E+00	2.93E+00
		Co-58	<3.67E+00	0.00E+00	3.67E+00
		Fe-59	<6.57E+00	0.00E+00	6.57E+00
		Co-60	<3.54E+00	0.00E+00	3.54E+00
		Zn-65	<6.12E+00	0.00E+00	6.12E+00
		Zr-95	<5.49E+00	0.00E+00	5.49E+00
		Nb-95	<3.98E+00	0.00E+00	3.98E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<3.79E+00	0.00E+00	3.79E+00
		Cs-137	<3.31E+00	0.00E+00	3.31E+00
		BaLa-140	<9.24E+00	0.00E+00	9.24E+00
		Be-7	<2.76E+01	0.00E+00	2.76E+01
		K-40	2.49E+01	2.25E+01	3.34E+01
		H3SW	1.04E+04	2.98E+02	1.74E+02
Sample ID: 475204	Sample Dates: 4/16/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.71E+00	0.00E+00	2.71E+00
		Co-58	<3.28E+00	0.00E+00	3.28E+00
		Fe-59	<4.95E+00	0.00E+00	4.95E+00
		Co-60	<2.92E+00	0.00E+00	2.92E+00
		Zn-65	<5.12E+00	0.00E+00	5.12E+00
		Zr-95	<5.53E+00	0.00E+00	5.53E+00
		Nb-95	<2.89E+00	0.00E+00	2.89E+00
		I-131	<1.14E+01	0.00E+00	1.14E+01
		Cs-134	<2.17E+00	0.00E+00	2.17E+00
		Cs-137	<3.33E+00	0.00E+00	3.33E+00



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Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID: 475204	Sample Dates: 4/16/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		BaLa-140	<4.76E+00	0.00E+00	4.76E+00
		Be-7	<2.26E+01	0.00E+00	2.26E+01
		K-40	2.48E+01	2.70E+01	4.35E+01
		H3SW	9.00E+03	2.83E+02	1.93E+02
Sample ID: 478096	Sample Dates: 5/14/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.00E+00	0.00E+00	3.00E+00
		Co-58	<3.45E+00	0.00E+00	3.45E+00
		Fe-59	<6.14E+00	0.00E+00	6.14E+00
		Co-60	<2.71E+00	0.00E+00	2.71E+00
		Zn-65	<4.99E+00	0.00E+00	4.99E+00
		Zr-95	<6.98E+00	0.00E+00	6.98E+00
		Nb-95	<3.62E+00	0.00E+00	3.62E+00
		I-131	<1.04E+01	0.00E+00	1.04E+01
		Cs-134	<3.64E+00	0.00E+00	3.64E+00
		Cs-137	<3.58E+00	0.00E+00	3.58E+00
		BaLa-140	<4.26E+00	0.00E+00	4.26E+00
		Be-7	<2.63E+01	0.00E+00	2.63E+01
		K-40	5.30E+01	3.06E+01	4.19E+01
		H3SW	7.89E+03	2.68E+02	1.89E+02
Sample ID: 479870	Sample Dates: 6/11/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.87E+00	0.00E+00	2.87E+00
		Co-58	<3.79E+00	0.00E+00	3.79E+00
		Fe-59	<6.76E+00	0.00E+00	6.76E+00
		Co-60	<3.40E+00	0.00E+00	3.40E+00
		Zn-65	<7.06E+00	0.00E+00	7.06E+00
		Zr-95	<6.47E+00	0.00E+00	6.47E+00
		Nb-95	<5.09E+00	0.00E+00	5.09E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<3.90E+00	0.00E+00	3.90E+00
		Cs-137	<3.62E+00	0.00E+00	3.62E+00
		BaLa-140	<8.91E+00	0.00E+00	8.91E+00
		Be-7	<2.35E+01	0.00E+00	2.35E+01
		K-40	5.74E+01	3.25E+01	4.29E+01
		H3SW	7.41E+03	2.54E+02	1.82E+02
Sample ID: 481949	Sample Dates: 7/9/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.08E+00	0.00E+00	2.08E+00
		Co-58	<2.18E+00	0.00E+00	2.18E+00
		Fe-59	<5.48E+00	0.00E+00	5.48E+00
		Co-60	<1.81E+00	0.00E+00	1.81E+00
		Zn-65	<4.89E+00	0.00E+00	4.89E+00
		Zr-95	<3.90E+00	0.00E+00	3.90E+00
		Nb-95	<2.59E+00	0.00E+00	2.59E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<2.60E+00	0.00E+00	2.60E+00
		Cs-137	<2.47E+00	0.00E+00	2.47E+00
		BaLa-140	<6.27E+00	0.00E+00	6.27E+00
		Be-7	<1.86E+01	0.00E+00	1.86E+01
		K-40	<3.12E+01	0.00E+00	3.12E+01
		H3SW	7.17E+03	2.59E+02	1.89E+02
Sample ID: 484006	Sample Dates: 8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.75E+00	0.00E+00	2.75E+00
		Co-58	<2.27E+00	0.00E+00	2.27E+00
		Fe-59	<5.40E+00	0.00E+00	5.40E+00
		Co-60	<2.46E+00	0.00E+00	2.46E+00
		Zn-65	<4.31E+00	0.00E+00	4.31E+00
		Zr-95	<5.08E+00	0.00E+00	5.08E+00
		Nb-95	<3.40E+00	0.00E+00	3.40E+00
		I-131	<9.40E+00	0.00E+00	9.40E+00
		Cs-134	<2.98E+00	0.00E+00	2.98E+00
		Cs-137	<2.48E+00	0.00E+00	2.48E+00
		BaLa-140	<8.37E+00	0.00E+00	8.37E+00
		Be-7	<2.48E+01	0.00E+00	2.48E+01
		K-40	4.03E+01	2.06E+01	2.54E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 26 [INDICATOR - S @ 4.7 miles]

Sample ID:	484006	Sample Dates:	8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
				H3SW	6.40E+03	2.52E+02	1.95E+02
Sample ID:	485251	Sample Dates:	9/4/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.60E+00	0.00E+00	3.60E+00
				Co-58	<4.21E+00	0.00E+00	4.21E+00
				Fe-59	<5.86E+00	0.00E+00	5.86E+00
				Co-60	<2.37E+00	0.00E+00	2.37E+00
				Zn-65	<7.75E+00	0.00E+00	7.75E+00
				Zr-95	<7.83E+00	0.00E+00	7.83E+00
				Nb-95	<5.38E+00	0.00E+00	5.38E+00
				I-131	<9.92E+00	0.00E+00	9.92E+00
				Cs-134	<4.22E+00	0.00E+00	4.22E+00
				Cs-137	<3.04E+00	0.00E+00	3.04E+00
				BaLa-140	<9.42E+00	0.00E+00	9.42E+00
				Be-7	<3.97E+01	0.00E+00	3.97E+01
				K-40	<6.01E+01	0.00E+00	6.01E+01
				H3SW	5.23E+03	2.29E+02	1.95E+02
Sample ID:	488462	Sample Dates:	10/1/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<3.88E+00	0.00E+00	3.88E+00
				Co-58	<3.57E+00	0.00E+00	3.57E+00
				Fe-59	<6.98E+00	0.00E+00	6.98E+00
				Co-60	<3.94E+00	0.00E+00	3.94E+00
				Zn-65	<4.44E+00	0.00E+00	4.44E+00
				Zr-95	<8.04E+00	0.00E+00	8.04E+00
				Nb-95	<4.86E+00	0.00E+00	4.86E+00
				I-131	<1.16E+01	0.00E+00	1.16E+01
				Cs-134	<3.83E+00	0.00E+00	3.83E+00
				Cs-137	<3.76E+00	0.00E+00	3.76E+00
				BaLa-140	<9.86E+00	0.00E+00	9.86E+00
				Be-7	<2.88E+01	0.00E+00	2.88E+01
				K-40	<6.93E+01	0.00E+00	6.93E+01
				H3SW	4.59E+03	2.17E+02	1.90E+02
Sample ID:	490143	Sample Dates:	10/29/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<2.49E+00	0.00E+00	2.49E+00
				Co-58	<2.37E+00	0.00E+00	2.37E+00
				Fe-59	<6.14E+00	0.00E+00	6.14E+00
				Co-60	<2.57E+00	0.00E+00	2.57E+00
				Zn-65	<4.45E+00	0.00E+00	4.45E+00
				Zr-95	<5.22E+00	0.00E+00	5.22E+00
				Nb-95	<3.00E+00	0.00E+00	3.00E+00
				I-131	<1.03E+01	0.00E+00	1.03E+01
				Cs-134	<2.67E+00	0.00E+00	2.67E+00
				Cs-137	<2.25E+00	0.00E+00	2.25E+00
				BaLa-140	<5.72E+00	0.00E+00	5.72E+00
				Be-7	<2.30E+01	0.00E+00	2.30E+01
				K-40	<4.64E+01	0.00E+00	4.64E+01
				H3SW	4.03E+03	2.06E+02	1.88E+02
Sample ID:	491738	Sample Dates:	11/26/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Mn-54	<1.77E+00	0.00E+00	1.77E+00
				Co-58	<2.08E+00	0.00E+00	2.08E+00
				Fe-59	<3.83E+00	0.00E+00	3.83E+00
				Co-60	<1.81E+00	0.00E+00	1.81E+00
				Zn-65	<3.59E+00	0.00E+00	3.59E+00
				Zr-95	<3.20E+00	0.00E+00	3.20E+00
				Nb-95	<2.52E+00	0.00E+00	2.52E+00
				I-131	<1.05E+01	0.00E+00	1.05E+01
				Cs-134	<1.42E+00	0.00E+00	1.42E+00
				Cs-137	<1.73E+00	0.00E+00	1.73E+00
				BaLa-140	<4.84E+00	0.00E+00	4.84E+00
				Be-7	<1.74E+01	0.00E+00	1.74E+01
				K-40	2.51E+01	1.53E+01	2.26E+01
				H3SW	3.62E+03	1.99E+02	1.95E+02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 466969	Sample Dates: 12/26/2017 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.41E+00	1.07E+00	1.55E+00
		Mn-54	<3.37E+00	0.00E+00	3.37E+00
		Co-58	<3.36E+00	0.00E+00	3.36E+00
		Fe-59	<7.52E+00	0.00E+00	7.52E+00
		Co-60	<4.30E+00	0.00E+00	4.30E+00
		Zn-65	<5.99E+00	0.00E+00	5.99E+00
		Zr-95	<6.61E+00	0.00E+00	6.61E+00
		Nb-95	<3.76E+00	0.00E+00	3.76E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<3.73E+00	0.00E+00	3.73E+00
		Cs-137	<4.06E+00	0.00E+00	4.06E+00
		BaLa-140	<1.11E+01	0.00E+00	1.11E+01
		Be-7	<4.01E+01	0.00E+00	4.01E+01
		K-40	5.67E+01	3.13E+01	3.82E+01
		H3SW	<-1.4E+01	0.00E+00	1.78E+02
Sample ID: 468750	Sample Dates: 1/22/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	6.02E+00	1.03E+00	1.30E+00
		Mn-54	<3.08E+00	0.00E+00	3.08E+00
		Co-58	<3.19E+00	0.00E+00	3.19E+00
		Fe-59	<6.19E+00	0.00E+00	6.19E+00
		Co-60	<2.62E+00	0.00E+00	2.62E+00
		Zn-65	<5.29E+00	0.00E+00	5.29E+00
		Zr-95	<4.88E+00	0.00E+00	4.88E+00
		Nb-95	<3.92E+00	0.00E+00	3.92E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<3.41E+00	0.00E+00	3.41E+00
		Cs-137	<3.07E+00	0.00E+00	3.07E+00
		BaLa-140	<7.72E+00	0.00E+00	7.72E+00
		Be-7	<2.59E+01	0.00E+00	2.59E+01
		K-40	<5.99E+01	0.00E+00	5.99E+01
		H3SW	<-5.7E+01	0.00E+00	1.85E+02
Sample ID: 471706	Sample Dates: 2/19/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	4.12E+00	8.70E-01	1.20E+00
		Mn-54	<2.43E+00	0.00E+00	2.43E+00
		Co-58	<2.32E+00	0.00E+00	2.32E+00
		Fe-59	<5.73E+00	0.00E+00	5.73E+00
		Co-60	<2.48E+00	0.00E+00	2.48E+00
		Zn-65	<4.56E+00	0.00E+00	4.56E+00
		Zr-95	<4.53E+00	0.00E+00	4.53E+00
		Nb-95	<3.40E+00	0.00E+00	3.40E+00
		I-131	<1.03E+01	0.00E+00	1.03E+01
		Cs-134	<2.39E+00	0.00E+00	2.39E+00
		Cs-137	<2.47E+00	0.00E+00	2.47E+00
		BaLa-140	<5.45E+00	0.00E+00	5.45E+00
		Be-7	<1.99E+01	0.00E+00	1.99E+01
		K-40	3.58E+01	2.30E+01	3.30E+01
		H3SW	<-9.1E+01	0.00E+00	1.91E+02
Sample ID: 473624	Sample Dates: 3/19/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		Beta	3.09E+00	9.18E-01	1.35E+00
		Mn-54	<4.51E+00	0.00E+00	4.51E+00
		Co-58	<2.48E+00	0.00E+00	2.48E+00
		Fe-59	<8.97E+00	0.00E+00	8.97E+00
		Co-60	<3.87E+00	0.00E+00	3.87E+00
		Zn-65	<6.37E+00	0.00E+00	6.37E+00
		Zr-95	<6.67E+00	0.00E+00	6.67E+00
		Nb-95	<3.23E+00	0.00E+00	3.23E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<4.43E+00	0.00E+00	4.43E+00
		Cs-137	<4.21E+00	0.00E+00	4.21E+00
		BaLa-140	<2.44E+00	0.00E+00	2.44E+00
		Be-7	<5.04E+01	0.00E+00	5.04E+01
		K-40	<6.80E+01	0.00E+00	6.80E+01
		H3SW	<4.02E+01	0.00E+00	1.74E+02



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 475205	Sample Dates: 4/16/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.93E+00	0.00E+00	2.93E+00
		Co-58	<2.77E+00	0.00E+00	2.77E+00
		Fe-59	<7.08E+00	0.00E+00	7.08E+00
		Co-60	<3.30E+00	0.00E+00	3.30E+00
		Zn-65	<7.54E+00	0.00E+00	7.54E+00
		Zr-95	<7.44E+00	0.00E+00	7.44E+00
		Nb-95	<4.49E+00	0.00E+00	4.49E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<3.66E+00	0.00E+00	3.66E+00
		Cs-137	<3.19E+00	0.00E+00	3.19E+00
		BaLa-140	<8.27E+00	0.00E+00	8.27E+00
		Be-7	<2.87E+01	0.00E+00	2.87E+01
		K-40	<4.80E+01	0.00E+00	4.80E+01
		H3SW	<-7.1E+00	0.00E+00	1.93E+02
Sample ID: 478097	Sample Dates: 5/14/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.49E+00	0.00E+00	2.49E+00
		Co-58	<3.02E+00	0.00E+00	3.02E+00
		Fe-59	<6.62E+00	0.00E+00	6.62E+00
		Co-60	<3.18E+00	0.00E+00	3.18E+00
		Zn-65	<5.21E+00	0.00E+00	5.21E+00
		Zr-95	<5.35E+00	0.00E+00	5.35E+00
		Nb-95	<3.99E+00	0.00E+00	3.99E+00
		I-131	<1.11E+01	0.00E+00	1.11E+01
		Cs-134	<3.72E+00	0.00E+00	3.72E+00
		Cs-137	<2.82E+00	0.00E+00	2.82E+00
		BaLa-140	<7.41E+00	0.00E+00	7.41E+00
		Be-7	<3.20E+01	0.00E+00	3.20E+01
		K-40	4.51E+01	2.47E+01	3.08E+01
		H3SW	<2.37E+01	0.00E+00	1.90E+02
Sample ID: 479871	Sample Dates: 6/11/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.44E+00	0.00E+00	3.44E+00
		Co-58	<2.87E+00	0.00E+00	2.87E+00
		Fe-59	<6.11E+00	0.00E+00	6.11E+00
		Co-60	<3.04E+00	0.00E+00	3.04E+00
		Zn-65	<5.62E+00	0.00E+00	5.62E+00
		Zr-95	<5.59E+00	0.00E+00	5.59E+00
		Nb-95	<3.42E+00	0.00E+00	3.42E+00
		I-131	<1.20E+01	0.00E+00	1.20E+01
		Cs-134	<3.36E+00	0.00E+00	3.36E+00
		Cs-137	<3.32E+00	0.00E+00	3.32E+00
		BaLa-140	<7.64E+00	0.00E+00	7.64E+00
		Be-7	<3.31E+01	0.00E+00	3.31E+01
		K-40	2.98E+01	2.68E+01	4.10E+01
		H3SW	<3.57E+01	0.00E+00	1.81E+02
Sample ID: 481950	Sample Dates: 7/9/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.30E+00	0.00E+00	2.30E+00
		Co-58	<2.72E+00	0.00E+00	2.72E+00
		Fe-59	<5.54E+00	0.00E+00	5.54E+00
		Co-60	<2.58E+00	0.00E+00	2.58E+00
		Zn-65	<4.32E+00	0.00E+00	4.32E+00
		Zr-95	<3.89E+00	0.00E+00	3.89E+00
		Nb-95	<3.36E+00	0.00E+00	3.36E+00
		I-131	<1.18E+01	0.00E+00	1.18E+01
		Cs-134	<2.42E+00	0.00E+00	2.42E+00
		Cs-137	<2.35E+00	0.00E+00	2.35E+00
		BaLa-140	<8.13E+00	0.00E+00	8.13E+00
		Be-7	<2.18E+01	0.00E+00	2.18E+01
		K-40	<3.86E+01	0.00E+00	3.86E+01
		H3SW	<-3.6E+01	0.00E+00	1.87E+02
Sample ID: 484007	Sample Dates: 8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.66E+00	0.00E+00	2.66E+00
		Co-58	<3.12E+00	0.00E+00	3.12E+00
		Fe-59	<6.09E+00	0.00E+00	6.09E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID: 484007	Sample Dates: 8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<2.69E+00	0.00E+00	2.69E+00
		Zn-65	<5.82E+00	0.00E+00	5.82E+00
		Zr-95	<4.85E+00	0.00E+00	4.85E+00
		Nb-95	<3.18E+00	0.00E+00	3.18E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<3.10E+00	0.00E+00	3.10E+00
		Cs-137	<2.29E+00	0.00E+00	2.29E+00
		BaLa-140	<6.98E+00	0.00E+00	6.98E+00
		Be-7	<2.15E+01	0.00E+00	2.15E+01
		K-40	<3.76E+01	0.00E+00	3.76E+01
		H3SW	<1.50E+02	0.00E+00	1.94E+02
Sample ID: 485252	Sample Dates: 9/4/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<8.34E-01	0.00E+00	8.34E-01
		Co-58	<9.09E-01	0.00E+00	9.09E-01
		Fe-59	<2.05E+00	0.00E+00	2.05E+00
		Co-60	<8.72E-01	0.00E+00	8.72E-01
		Zn-65	<1.95E+00	0.00E+00	1.95E+00
		Zr-95	<1.93E+00	0.00E+00	1.93E+00
		Nb-95	<1.27E+00	0.00E+00	1.27E+00
		I-131	<3.74E+00	0.00E+00	3.74E+00
		Cs-134	<1.02E+00	0.00E+00	1.02E+00
		Cs-137	<1.07E+00	0.00E+00	1.07E+00
		BaLa-140	<2.54E+00	0.00E+00	2.54E+00
		Be-7	<9.86E+00	0.00E+00	9.86E+00
		K-40	3.97E+01	1.07E+01	1.38E+01
		H3SW	<4.80E+01	0.00E+00	1.98E+02
Sample ID: 488463	Sample Dates: 10/1/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.86E+00	0.00E+00	2.86E+00
		Co-58	<3.18E+00	0.00E+00	3.18E+00
		Fe-59	<6.43E+00	0.00E+00	6.43E+00
		Co-60	<2.97E+00	0.00E+00	2.97E+00
		Zn-65	<6.83E+00	0.00E+00	6.83E+00
		Zr-95	<6.23E+00	0.00E+00	6.23E+00
		Nb-95	<3.86E+00	0.00E+00	3.86E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<4.06E+00	0.00E+00	4.06E+00
		Cs-137	<2.44E+00	0.00E+00	2.44E+00
		BaLa-140	<6.58E+00	0.00E+00	6.58E+00
		Be-7	<2.76E+01	0.00E+00	2.76E+01
		K-40	9.54E+01	2.97E+01	2.52E+01
		H3SW	<9.5E+00	0.00E+00	1.89E+02
Sample ID: 490144	Sample Dates: 10/29/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.31E+00	0.00E+00	3.31E+00
		Co-58	<4.22E+00	0.00E+00	4.22E+00
		Fe-59	<8.72E+00	0.00E+00	8.72E+00
		Co-60	<3.11E+00	0.00E+00	3.11E+00
		Zn-65	<7.44E+00	0.00E+00	7.44E+00
		Zr-95	<5.99E+00	0.00E+00	5.99E+00
		Nb-95	<4.15E+00	0.00E+00	4.15E+00
		I-131	<1.15E+01	0.00E+00	1.15E+01
		Cs-134	<3.02E+00	0.00E+00	3.02E+00
		Cs-137	<2.28E+00	0.00E+00	2.28E+00
		BaLa-140	<1.12E+01	0.00E+00	1.12E+01
		Be-7	<3.15E+01	0.00E+00	3.15E+01
		K-40	<6.68E+01	0.00E+00	6.68E+01
		H3SW	<1.19E+01	0.00E+00	1.89E+02
Sample ID: 491739	Sample Dates: 11/26/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<1.50E+00	0.00E+00	1.50E+00
		Co-58	<1.95E+00	0.00E+00	1.95E+00
		Fe-59	<4.13E+00	0.00E+00	4.13E+00
		Co-60	<1.40E+00	0.00E+00	1.40E+00
		Zn-65	<3.64E+00	0.00E+00	3.64E+00
		Zr-95	<3.64E+00	0.00E+00	3.64E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 40 [INDICATOR - SSE @ 17.2 miles]

Sample ID:	491739	Sample Dates:	11/26/2018 - 12/26/2018	Nuclide	Activity	2 Sigma Error	MDA
				Nb-95	<2.77E+00	0.00E+00	2.77E+00
				I-131	<1.15E+01	0.00E+00	1.15E+01
				Cs-134	<1.88E+00	0.00E+00	1.88E+00
				Cs-137	<1.55E+00	0.00E+00	1.55E+00
				BaLa-140	<5.10E+00	0.00E+00	5.10E+00
				Be-7	<1.65E+01	0.00E+00	1.65E+01
				K-40	6.69E+01	1.94E+01	2.36E+01
				H3SW	<-8.8E+01	0.00E+00	1.96E+02

Sample Point 43 [CONTROL - SW @ 8.47 miles]

Sample ID:	466183	Sample Dates:	12/26/2017 - 1/22/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	5.93E+00	1.14E+00	1.56E+00
				Mn-54	<2.75E+00	0.00E+00	2.75E+00
				Co-58	<2.91E+00	0.00E+00	2.91E+00
				Fe-59	<5.01E+00	0.00E+00	5.01E+00
				Co-60	<2.63E+00	0.00E+00	2.63E+00
				Zn-65	<6.26E+00	0.00E+00	6.26E+00
				Zr-95	<5.94E+00	0.00E+00	5.94E+00
				Nb-95	<3.89E+00	0.00E+00	3.89E+00
				I-131	<1.02E+01	0.00E+00	1.02E+01
				Cs-134	<3.28E+00	0.00E+00	3.28E+00
				Cs-137	<3.04E+00	0.00E+00	3.04E+00
				BaLa-140	<7.55E+00	0.00E+00	7.55E+00
				Be-7	<2.57E+01	0.00E+00	2.57E+01
				K-40	1.17E+02	3.27E+01	3.56E+01
				H3SW	<-2.4E+00	0.00E+00	1.78E+02

Sample ID:	468751	Sample Dates:	1/22/2018 - 2/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	5.05E+00	1.09E+00	1.53E+00
				Mn-54	<3.14E+00	0.00E+00	3.14E+00
				Co-58	<2.37E+00	0.00E+00	2.37E+00
				Fe-59	<5.20E+00	0.00E+00	5.20E+00
				Co-60	<3.43E+00	0.00E+00	3.43E+00
				Zn-65	<6.32E+00	0.00E+00	6.32E+00
				Zr-95	<6.83E+00	0.00E+00	6.83E+00
				Nb-95	<3.71E+00	0.00E+00	3.71E+00
				I-131	<1.16E+01	0.00E+00	1.16E+01
				Cs-134	<3.59E+00	0.00E+00	3.59E+00
				Cs-137	<3.23E+00	0.00E+00	3.23E+00
				BaLa-140	<8.92E+00	0.00E+00	8.92E+00
				Be-7	<2.93E+01	0.00E+00	2.93E+01
				K-40	<5.36E+01	0.00E+00	5.36E+01
				H3SW	<4.96E+01	0.00E+00	1.85E+02

Sample ID:	471707	Sample Dates:	2/19/2018 - 3/19/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	3.70E+00	8.52E-01	1.20E+00
				Mn-54	<4.13E+00	0.00E+00	4.13E+00
				Co-58	<4.99E+00	0.00E+00	4.99E+00
				Fe-59	<9.24E+00	0.00E+00	9.24E+00
				Co-60	<4.35E+00	0.00E+00	4.35E+00
				Zn-65	<9.18E+00	0.00E+00	9.18E+00
				Zr-95	<8.50E+00	0.00E+00	8.50E+00
				Nb-95	<6.02E+00	0.00E+00	6.02E+00
				I-131	<1.15E+01	0.00E+00	1.15E+01
				Cs-134	<3.61E+00	0.00E+00	3.61E+00
				Cs-137	<4.18E+00	0.00E+00	4.18E+00
				BaLa-140	<1.20E+01	0.00E+00	1.20E+01
				Be-7	<3.76E+01	0.00E+00	3.76E+01
				K-40	<7.55E+01	0.00E+00	7.55E+01
				H3SW	<-1.3E+02	0.00E+00	1.91E+02

Sample ID:	473625	Sample Dates:	3/19/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
				Beta	4.20E+00	9.64E-01	1.35E+00
				Mn-54	<3.56E+00	0.00E+00	3.56E+00
				Co-58	<2.86E+00	0.00E+00	2.86E+00
				Fe-59	<8.10E+00	0.00E+00	8.10E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 43 [CONTROL - SW @ 8.47 miles]

Sample ID: 473625	Sample Dates: 3/19/2018 - 4/16/2018	Nuclide	Activity	2 Sigma Error	MDA
		Co-60	<2.62E+00	0.00E+00	2.62E+00
		Zn-65	<7.82E+00	0.00E+00	7.82E+00
		Zr-95	<6.63E+00	0.00E+00	6.63E+00
		Nb-95	<3.53E+00	0.00E+00	3.53E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<2.54E+00	0.00E+00	2.54E+00
		Cs-137	<3.86E+00	0.00E+00	3.86E+00
		BaLa-140	<9.12E+00	0.00E+00	9.12E+00
		Be-7	<2.38E+01	0.00E+00	2.38E+01
		K-40	<5.82E+01	0.00E+00	5.82E+01
		H3SW	<-2.4E+01	0.00E+00	1.75E+02
Sample ID: 475206	Sample Dates: 4/16/2018 - 5/14/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.28E+00	0.00E+00	2.28E+00
		Co-58	<2.78E+00	0.00E+00	2.78E+00
		Fe-59	<6.24E+00	0.00E+00	6.24E+00
		Co-60	<2.41E+00	0.00E+00	2.41E+00
		Zn-65	<5.90E+00	0.00E+00	5.90E+00
		Zr-95	<4.93E+00	0.00E+00	4.93E+00
		Nb-95	<3.75E+00	0.00E+00	3.75E+00
		I-131	<1.19E+01	0.00E+00	1.19E+01
		Cs-134	<2.96E+00	0.00E+00	2.96E+00
		Cs-137	<2.90E+00	0.00E+00	2.90E+00
		BaLa-140	<8.55E+00	0.00E+00	8.55E+00
		Be-7	<2.17E+01	0.00E+00	2.17E+01
		K-40	4.60E+01	2.87E+01	4.09E+01
		H3SW	<-5.4E+01	0.00E+00	1.93E+02
Sample ID: 478098	Sample Dates: 5/14/2018 - 6/11/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.98E+00	0.00E+00	2.98E+00
		Co-58	<3.85E+00	0.00E+00	3.85E+00
		Fe-59	<6.91E+00	0.00E+00	6.91E+00
		Co-60	<4.00E+00	0.00E+00	4.00E+00
		Zn-65	<6.43E+00	0.00E+00	6.43E+00
		Zr-95	<7.50E+00	0.00E+00	7.50E+00
		Nb-95	<5.14E+00	0.00E+00	5.14E+00
		I-131	<1.13E+01	0.00E+00	1.13E+01
		Cs-134	<3.99E+00	0.00E+00	3.99E+00
		Cs-137	<4.31E+00	0.00E+00	4.31E+00
		BaLa-140	<8.00E+00	0.00E+00	8.00E+00
		Be-7	<2.82E+01	0.00E+00	2.82E+01
		K-40	<5.78E+01	0.00E+00	5.78E+01
		H3SW	<6.40E+01	0.00E+00	1.90E+02
Sample ID: 479872	Sample Dates: 6/11/2018 - 7/9/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<4.51E+00	0.00E+00	4.51E+00
		Co-58	<4.23E+00	0.00E+00	4.23E+00
		Fe-59	<1.01E+01	0.00E+00	1.01E+01
		Co-60	<3.86E+00	0.00E+00	3.86E+00
		Zn-65	<8.88E+00	0.00E+00	8.88E+00
		Zr-95	<7.49E+00	0.00E+00	7.49E+00
		Nb-95	<5.22E+00	0.00E+00	5.22E+00
		I-131	<1.10E+01	0.00E+00	1.10E+01
		Cs-134	<3.74E+00	0.00E+00	3.74E+00
		Cs-137	<3.48E+00	0.00E+00	3.48E+00
		BaLa-140	<1.18E+01	0.00E+00	1.18E+01
		Be-7	<2.98E+01	0.00E+00	2.98E+01
		K-40	<8.26E+01	0.00E+00	8.26E+01
		H3SW	<-1.6E+01	0.00E+00	1.81E+02
Sample ID: 481951	Sample Dates: 7/9/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<2.10E+00	0.00E+00	2.10E+00
		Co-58	<2.01E+00	0.00E+00	2.01E+00
		Fe-59	<4.32E+00	0.00E+00	4.32E+00
		Co-60	<2.08E+00	0.00E+00	2.08E+00
		Zn-65	<3.88E+00	0.00E+00	3.88E+00
		Zr-95	<4.25E+00	0.00E+00	4.25E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 43 [CONTROL - SW @ 8.47 miles]

Sample ID: 481951	Sample Dates: 7/9/2018 - 8/6/2018	Nuclide	Activity	2 Sigma Error	MDA
		Nb-95	<3.00E+00	0.00E+00	3.00E+00
		I-131	<1.06E+01	0.00E+00	1.06E+01
		Cs-134	<2.35E+00	0.00E+00	2.35E+00
		Cs-137	<1.95E+00	0.00E+00	1.95E+00
		BaLa-140	<6.41E+00	0.00E+00	6.41E+00
		Be-7	<1.84E+01	0.00E+00	1.84E+01
		K-40	5.21E+01	2.13E+01	2.77E+01
		H3SW	<1.20E+01	0.00E+00	1.89E+02
Sample ID: 484008	Sample Dates: 8/6/2018 - 9/4/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.56E+00	0.00E+00	3.56E+00
		Co-58	<3.64E+00	0.00E+00	3.64E+00
		Fe-59	<6.15E+00	0.00E+00	6.15E+00
		Co-60	<2.92E+00	0.00E+00	2.92E+00
		Zn-65	<5.38E+00	0.00E+00	5.38E+00
		Zr-95	<6.60E+00	0.00E+00	6.60E+00
		Nb-95	<4.00E+00	0.00E+00	4.00E+00
		I-131	<1.17E+01	0.00E+00	1.17E+01
		Cs-134	<3.33E+00	0.00E+00	3.33E+00
		Cs-137	<3.07E+00	0.00E+00	3.07E+00
		BaLa-140	<6.71E+00	0.00E+00	6.71E+00
		Be-7	<3.00E+01	0.00E+00	3.00E+01
		K-40	6.01E+01	2.90E+01	3.63E+01
		H3SW	<5.94E+01	0.00E+00	1.95E+02
Sample ID: 485253	Sample Dates: 9/4/2018 - 10/1/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.80E+00	0.00E+00	3.80E+00
		Co-58	<3.48E+00	0.00E+00	3.48E+00
		Fe-59	<5.86E+00	0.00E+00	5.86E+00
		Co-60	<8.71E-01	0.00E+00	8.71E-01
		Zn-65	<7.75E+00	0.00E+00	7.75E+00
		Zr-95	<8.85E+00	0.00E+00	8.85E+00
		Nb-95	<4.19E+00	0.00E+00	4.19E+00
		I-131	<1.09E+01	0.00E+00	1.09E+01
		Cs-134	<3.75E+00	0.00E+00	3.75E+00
		Cs-137	<3.27E+00	0.00E+00	3.27E+00
		BaLa-140	<2.37E+00	0.00E+00	2.37E+00
		Be-7	<4.48E+01	0.00E+00	4.48E+01
		K-40	<7.83E+01	0.00E+00	7.83E+01
		H3SW	<-5.3E+01	0.00E+00	1.97E+02
Sample ID: 488464	Sample Dates: 10/1/2018 - 10/29/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.83E+00	0.00E+00	3.83E+00
		Co-58	<3.28E+00	0.00E+00	3.28E+00
		Fe-59	<8.66E+00	0.00E+00	8.66E+00
		Co-60	<3.70E+00	0.00E+00	3.70E+00
		Zn-65	<8.07E+00	0.00E+00	8.07E+00
		Zr-95	<5.81E+00	0.00E+00	5.81E+00
		Nb-95	<3.46E+00	0.00E+00	3.46E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<3.27E+00	0.00E+00	3.27E+00
		Cs-137	<2.49E+00	0.00E+00	2.49E+00
		BaLa-140	<6.78E+00	0.00E+00	6.78E+00
		Be-7	<2.55E+01	0.00E+00	2.55E+01
		K-40	<5.97E+01	0.00E+00	5.97E+01
		H3SW	<-3.1E+01	0.00E+00	1.91E+02
Sample ID: 490145	Sample Dates: 10/29/2018 - 11/26/2018	Nuclide	Activity	2 Sigma Error	MDA
		Mn-54	<3.23E+00	0.00E+00	3.23E+00
		Co-58	<2.97E+00	0.00E+00	2.97E+00
		Fe-59	<8.05E+00	0.00E+00	8.05E+00
		Co-60	<3.42E+00	0.00E+00	3.42E+00
		Zn-65	<6.03E+00	0.00E+00	6.03E+00
		Zr-95	<6.68E+00	0.00E+00	6.68E+00
		Nb-95	<4.78E+00	0.00E+00	4.78E+00
		I-131	<1.16E+01	0.00E+00	1.16E+01
		Cs-134	<3.67E+00	0.00E+00	3.67E+00



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: SURFACE WATER Concentration (Activity): pCi/l

Sample Point 43 [CONTROL - SW @ 8.47 miles]

Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
490145	10/29/2018 - 11/26/2018	Cs-137	<3.21E+00	0.00E+00	3.21E+00
		BaLa-140	<7.68E+00	0.00E+00	7.68E+00
		Be-7	<2.87E+01	0.00E+00	2.87E+01
		K-40	7.98E+01	3.46E+01	4.36E+01
		H3SW	<-1.4E+01	0.00E+00	1.88E+02
Sample ID:	Sample Dates:	Nuclide	Activity	2 Sigma Error	MDA
491740	11/26/2018 - 12/26/2018	Mn-54	<1.37E+00	0.00E+00	1.37E+00
		Co-58	<1.68E+00	0.00E+00	1.68E+00
		Fe-59	<3.12E+00	0.00E+00	3.12E+00
		Co-60	<1.06E+00	0.00E+00	1.06E+00
		Zn-65	<2.70E+00	0.00E+00	2.70E+00
		Zr-95	<3.36E+00	0.00E+00	3.36E+00
		Nb-95	<2.16E+00	0.00E+00	2.16E+00
		I-131	<1.04E+01	0.00E+00	1.04E+01
		Cs-134	<1.45E+00	0.00E+00	1.45E+00
		Cs-137	<1.40E+00	0.00E+00	1.40E+00
		BaLa-140	<5.95E+00	0.00E+00	5.95E+00
		Be-7	<1.36E+01	0.00E+00	1.36E+01
		K-40	1.65E+01	1.55E+01	2.48E+01
		H3SW	<-7.2E+01	0.00E+00	1.94E+02

Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 1 [INDICATOR - N @ 2.6 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
470164	1/10/2018 - 4/11/2018	mR/Std Qtr	17.64
Sample ID:	Sample Dates:	Nuclide	Activity
477122	4/11/2018 - 7/11/2018	mR/Std Qtr	14.11
Sample ID:	Sample Dates:	Nuclide	Activity
483752	7/11/2018 - 10/10/2018	mR/Std Qtr	13.64
Sample ID:	Sample Dates:	Nuclide	Activity
490536	10/10/2018 - 1/9/2019	mR/Std Qtr	16.03

Sample Point 2 [INDICATOR - NNE @ 1.4 miles]

TLD RING TLD_INNER

Sample ID:	Sample Dates:	Nuclide	Activity
470172	1/10/2018 - 4/11/2018	mR/Std Qtr	17.45
Sample ID:	Sample Dates:	Nuclide	Activity
477130	4/11/2018 - 7/11/2018	mR/Std Qtr	15.74
Sample ID:	Sample Dates:	Nuclide	Activity
483760	7/11/2018 - 10/10/2018	mR/Std Qtr	13.63
Sample ID:	Sample Dates:	Nuclide	Activity
490544	10/10/2018 - 1/9/2019	mR/Std Qtr	16.14

Sample Point 3 [INDICATOR - ENE @ 1.9 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
477141	4/11/2018 - 7/11/2018	mR/Std Qtr	13.69
Sample ID:	Sample Dates:	Nuclide	Activity
483771	7/11/2018 - 10/10/2018	mR/Std Qtr	12.07
Sample ID:	Sample Dates:	Nuclide	Activity
490555	10/10/2018 - 1/9/2019	mR/Std Qtr	13.87

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

TLD RING TLD_SPEC

Sample ID:	Sample Dates:	Nuclide	Activity
470188	1/10/2018 - 4/11/2018	mR/Std Qtr	14.62
Sample ID:	Sample Dates:	Nuclide	Activity
477146	4/11/2018 - 7/11/2018	mR/Std Qtr	12.13

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Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 4 [INDICATOR - NNE @ 3.1 miles]

TLD RING TLD_SPEC

Sample ID:	483776	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	11.05
Sample ID:	490560	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	15.48

Sample Point 5 [CONTROL - WNW @ 12 miles]

TLD RING TLD_CTRL

Sample ID:	470191	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	16.72
Sample ID:	477149	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	15.61
Sample ID:	483779	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	14.51
Sample ID:	490563	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	17.68

Sample Point 6 [INDICATOR - ENE @ 0.8 miles]

TLD RING TLD_INNER

Sample ID:	470195	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	15.66
Sample ID:	477153	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	13.65
Sample ID:	483783	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	13.56
Sample ID:	490567	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16.38

Sample Point 7 [INDICATOR - E @ 0.7 miles]

TLD RING TLD_INNER

Sample ID:	470197	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	18.99
Sample ID:	477155	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	15.64
Sample ID:	483785	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	13.21
Sample ID:	490569	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16.31

Sample Point 8 [INDICATOR - ESE @ 0.6 miles]

TLD RING TLD_INNER

Sample ID:	470202	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	18.47
Sample ID:	477160	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	15.18
Sample ID:	483790	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	12.94
Sample ID:	490574	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	14.65

Sample Point 9 [INDICATOR - SE @ 2.2 miles]

TLD RING TLD_INNER

Sample ID:	470203	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.37
Sample ID:	477161	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	13.60
Sample ID:	483791	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	11.38

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Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 9 [INDICATOR - SE @ 2.2 miles]

TLD RING TLD_INNER

Sample ID:	490575	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.04

Sample Point 10 [INDICATOR - SSE @ 2.2 miles]

TLD RING TLD_INNER

Sample ID:	470165	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.57

Sample ID:	477123	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	11.95

Sample ID:	483753	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	10.44

Sample ID:	490537	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.97

Sample Point 11 [INDICATOR - S @ 0.6 miles]

TLD RING TLD_INNER

Sample ID:	470166	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	16.49

Sample ID:	477124	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	11.41

Sample ID:	483754	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	12.15

Sample ID:	490538	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	14.41

Sample Point 12 [INDICATOR - SSW @ 0.9 miles]

TLD RING TLD_INNER

Sample ID:	470167	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	17.12

Sample ID:	477125	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	12.95

Sample ID:	483755	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	11.83

Sample ID:	490539	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.31

Sample Point 13 [INDICATOR - WSW @ 0.7 miles]

TLD RING TLD_INNER

Sample ID:	470168	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	16.15

Sample ID:	477126	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	14.11

Sample ID:	483756	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	13.05

Sample ID:	490540	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.67

Sample Point 14 [INDICATOR - W @ 1.5 miles]

TLD RING TLD_INNER

Sample ID:	470169	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	17.83

Sample ID:	477127	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	14.68

Sample ID:	483757	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	14.64

Sample ID:	490541	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16.56

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Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 15 [INDICATOR - W @ 2 miles]

TLD RING TLD_INNER

Sample ID:	470170	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.22
Sample ID:	477128	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	11.31
Sample ID:	483758	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	10.73
Sample ID:	490542	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	14.15

Sample Point 19 [INDICATOR - NNE @ 5 miles]

TLD RING TLD_OUTER

Sample ID:	470171	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	16.04
Sample ID:	477129	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	15.23
Sample ID:	483759	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	12.67
Sample ID:	490543	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.41

Sample Point 20 [INDICATOR - NE @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	470173	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	18.35
Sample ID:	477131	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	16.37
Sample ID:	483761	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	14.18
Sample ID:	490545	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16.8

Sample Point 21 [INDICATOR - ENE @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	470174	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	17.43
Sample ID:	477132	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	13.59
Sample ID:	483762	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	12.56
Sample ID:	490546	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	14.97

Sample Point 22 [INDICATOR - E @ 4.3 miles]

TLD RING TLD_OUTER

Sample ID:	470175	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.14
Sample ID:	477133	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	12.28
Sample ID:	483763	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	11.82
Sample ID:	490547	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	14.61

Sample Point 23 [INDICATOR - ESE @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	470176	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	16.59

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Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 23 [INDICATOR - ESE @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	477134	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	13.52
Sample ID:	483764	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	12.56
Sample ID:	490548	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16.48

Sample Point 24 [INDICATOR - SE @ 4 miles]

TLD RING TLD_OUTER

Sample ID:	470177	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.84
Sample ID:	477135	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	12.40
Sample ID:	483765	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	12.68
Sample ID:	490549	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.59

Sample Point 25 [INDICATOR - SSE @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	470178	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	17.93
Sample ID:	477136	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	13.31
Sample ID:	483766	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	12.65
Sample ID:	490550	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	14.32

Sample Point 26 [INDICATOR - S @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	470179	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	13.73
Sample ID:	477137	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	12.82
Sample ID:	483767	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	10.66
Sample ID:	490551	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.17

Sample Point 27 [INDICATOR - SSW @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	470180	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.74
Sample ID:	477138	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	11.17
Sample ID:	483768	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	10.95
Sample ID:	490552	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	10.39

Sample Point 28 [INDICATOR - SW @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	470181	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.62
Sample ID:	477139	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	12.25

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Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 28 [INDICATOR - SW @ 4.8 miles]

TLD RING TLD_OUTER

Sample ID:	483769	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	12.58
Sample ID:	490553	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	14.37

Sample Point 29 [INDICATOR - WSW @ 5.7 miles]

TLD RING TLD_OUTER

Sample ID:	470182	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	19.97
Sample ID:	477140	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	15.70
Sample ID:	483770	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	14.48
Sample ID:	490554	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	17.53

Sample Point 30 [INDICATOR - W @ 5.6 miles]

TLD RING TLD_OUTER

Sample ID:	470184	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	13.68
Sample ID:	477142	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	11.57
Sample ID:	483772	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	9.94
Sample ID:	490556	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	11.83

Sample Point 31 [INDICATOR - WNW @ 4.7 miles]

TLD RING TLD_OUTER

Sample ID:	470185	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	13.04
Sample ID:	477143	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	11.47
Sample ID:	483773	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	10.46
Sample ID:	490557	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	10.93

Sample Point 32 [INDICATOR - NNW @ 6.4 miles]

TLD RING TLD_SPEC

Sample ID:	470186	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	17.43
Sample ID:	477144	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	13.45
Sample ID:	483774	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	13.06
Sample ID:	490558	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16

Sample Point 33 [INDICATOR - NNW @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	470187	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.63
Sample ID:	477145	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	11.71
Sample ID:	490559	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.47

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Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 48 [INDICATOR - N @ 4.5 miles]

TLD RING TLD_OUTER

Sample ID:	470189	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	17.51
Sample ID:	477147	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	14.86
Sample ID:	483777	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	13.90
Sample ID:	490561	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	17.25

Sample Point 49 [INDICATOR - NE @ 2.5 miles]

TLD RING TLD_INNER

Sample ID:	470190	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	19.97
Sample ID:	477148	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	16.44
Sample ID:	483778	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	13.23
Sample ID:	490562	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16.73

Sample Point 50 [INDICATOR - ESE @ 2.6 miles]

TLD RING TLD_SPEC

Sample ID:	470192	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	13.99
Sample ID:	477150	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	12.13
Sample ID:	483780	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	11.23
Sample ID:	490564	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.2

Sample Point 53 [INDICATOR - NW @ 5.8 miles]

TLD RING TLD_OUTER

Sample ID:	470193	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	14.84
Sample ID:	477151	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	12.64
Sample ID:	483781	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	10.91
Sample ID:	490565	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	12.2

Sample Point 56 [INDICATOR - WSW @ 3 miles]

TLD RING TLD_INNER

Sample ID:	470194	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	16.04
Sample ID:	477152	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	12.11
Sample ID:	490566	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	13.09

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

TLD RING TLD_INNER

Sample ID:	470196	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	22.08
Sample ID:	477154	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	14.98

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Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

TLD RING TLD_INNER

Sample ID:	483784	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	15.10
Sample ID:	490568	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16.69

Sample Point 93 [INDICATOR - WNW @ 2.2 miles]

TLD RING TLD_INNER

Sample ID:	470204	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	18.01
Sample ID:	477162	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	14.42
Sample ID:	483792	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	18.31
Sample ID:	490576	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	15.66

Sample Point 94 [INDICATOR - NW @ 2 miles]

TLD RING TLD_INNER

Sample ID:	470205	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	18.37
Sample ID:	477163	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	17.14
Sample ID:	483793	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	15.75
Sample ID:	490577	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	18.78

Sample Point 95 [INDICATOR - NNW @ 2 miles]

TLD RING TLD_INNER

Sample ID:	470206	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	16.62
Sample ID:	477164	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	14.97
Sample ID:	483794	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	13.40
Sample ID:	490578	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	16

Sample Point 98 [INDICATOR - E @ 5.9 miles]

TLD RING TLD_SPEC

Sample ID:	470207	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	15.29
Sample ID:	477165	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	14.31
Sample ID:	483795	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	13.58
Sample ID:	490579	Sample Dates:	10/10/2018 - 1/9/2019	Nuclide	Activity
				mR/Std Qtr	15.64

Sample Point 99 [INDICATOR - NNE @ 5.47 miles]

TLD RING TLD_SPEC

Sample ID:	470208	Sample Dates:	1/10/2018 - 4/11/2018	Nuclide	Activity
				mR/Std Qtr	16.13
Sample ID:	477166	Sample Dates:	4/11/2018 - 7/11/2018	Nuclide	Activity
				mR/Std Qtr	13.6
Sample ID:	483796	Sample Dates:	7/11/2018 - 10/10/2018	Nuclide	Activity
				mR/Std Qtr	14.29

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Media Type: TLD Concentration (Activity): mR/Standard Quarter

Sample Point 99 [INDICATOR - NNE @ 5.47 miles]

TLD RING TLD_SPEC

Sample ID: 490580 Sample Dates: 10/10/2018 - 1/9/2019 Nuclide Activity
mR/Std Qtr 15.76

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 5 [CONTROL - NNW @ 12 miles]

Sample ID:	474881	Sample Dates:	5/7/2018 - 5/7/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.68E+01	0.00E+00	2.68E+01
					Co-58	<2.58E+01	0.00E+00	2.58E+01
					Fe-59	<4.65E+01	0.00E+00	4.65E+01
					Co-60	<2.93E+01	0.00E+00	2.93E+01
					Zn-65	<4.20E+01	0.00E+00	4.20E+01
					Zr-95	<4.25E+01	0.00E+00	4.25E+01
					Nb-95	<2.40E+01	0.00E+00	2.40E+01
					I-131	<2.48E+01	0.00E+00	2.48E+01
					Cs-134	<3.13E+01	0.00E+00	3.13E+01
					Cs-137	<2.91E+01	0.00E+00	2.91E+01
					BaLa-140	<4.41E+01	0.00E+00	4.41E+01
					Be-7	3.57E+02	1.73E+02	2.29E+02
					K-40	4.26E+03	7.41E+02	4.29E+02

Sample ID:	477367	Sample Dates:	6/4/2018 - 6/4/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.69E+01	0.00E+00	2.69E+01
					Co-58	<2.22E+01	0.00E+00	2.22E+01
					Fe-59	<5.10E+01	0.00E+00	5.10E+01
					Co-60	<2.28E+01	0.00E+00	2.28E+01
					Zn-65	<6.06E+01	0.00E+00	6.06E+01
					Zr-95	<5.34E+01	0.00E+00	5.34E+01
					Nb-95	<3.53E+01	0.00E+00	3.53E+01
					I-131	<2.59E+01	0.00E+00	2.59E+01
					Cs-134	<3.31E+01	0.00E+00	3.31E+01
					Cs-137	<3.19E+01	0.00E+00	3.19E+01
					BaLa-140	<3.66E+01	0.00E+00	3.66E+01
					Be-7	8.44E+02	2.82E+02	3.51E+02
					K-40	3.96E+03	7.44E+02	4.84E+02

Sample ID:	479049	Sample Dates:	7/2/2018 - 7/2/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.40E+01	0.00E+00	2.40E+01
					Co-58	<2.56E+01	0.00E+00	2.56E+01
					Fe-59	<6.50E+01	0.00E+00	6.50E+01
					Co-60	<3.34E+01	0.00E+00	3.34E+01
					Zn-65	<6.09E+01	0.00E+00	6.09E+01
					Zr-95	<4.05E+01	0.00E+00	4.05E+01
					Nb-95	<3.09E+01	0.00E+00	3.09E+01
					I-131	<2.96E+01	0.00E+00	2.96E+01
					Cs-134	<2.84E+01	0.00E+00	2.84E+01
					Cs-137	<2.51E+01	0.00E+00	2.51E+01
					BaLa-140	<3.88E+01	0.00E+00	3.88E+01
					Be-7	1.42E+03	2.89E+02	2.71E+02
					K-40	4.58E+03	6.77E+02	2.12E+02

Sample ID:	481944	Sample Dates:	8/6/2018 - 8/6/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.40E+01	0.00E+00	3.40E+01
					Co-58	<3.00E+01	0.00E+00	3.00E+01
					Fe-59	<7.13E+01	0.00E+00	7.13E+01
					Co-60	<2.19E+01	0.00E+00	2.19E+01
					Zn-65	<6.96E+01	0.00E+00	6.96E+01
					Zr-95	<5.00E+01	0.00E+00	5.00E+01
					Nb-95	<3.48E+01	0.00E+00	3.48E+01
					I-131	<4.66E+01	0.00E+00	4.66E+01
					Cs-134	<3.88E+01	0.00E+00	3.88E+01
					Cs-137	<3.05E+01	0.00E+00	3.05E+01
					BaLa-140	<5.98E+01	0.00E+00	5.98E+01
					Be-7	1.62E+03	3.63E+02	3.57E+02
					K-40	3.34E+03	6.58E+02	4.08E+02

Sample ID:	484001	Sample Dates:	9/10/2018 - 9/10/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.53E+01	0.00E+00	3.53E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 5 [CONTROL - NNW @ 12 miles]

Sample ID:	484001	Sample Dates:	9/10/2018 - 9/10/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Co-58	<4.04E+01	0.00E+00	4.04E+01
					Fe-59	<8.53E+01	0.00E+00	8.53E+01
					Co-60	<3.89E+01	0.00E+00	3.89E+01
					Zn-65	<1.06E+02	0.00E+00	1.06E+02
					Zr-95	<8.01E+01	0.00E+00	8.01E+01
					Nb-95	<3.95E+01	0.00E+00	3.95E+01
					I-131	<4.48E+01	0.00E+00	4.48E+01
					Cs-134	<4.52E+01	0.00E+00	4.52E+01
					Cs-137	<2.58E+01	0.00E+00	2.58E+01
					BaLa-140	<4.85E+01	0.00E+00	4.85E+01
					Be-7	3.17E+03	5.70E+02	4.86E+02
					K-40	4.20E+03	8.69E+02	5.87E+02

Sample ID:	486146	Sample Dates:	10/8/2018 - 10/8/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.41E+01	0.00E+00	3.41E+01
					Co-58	<2.48E+01	0.00E+00	2.48E+01
					Fe-59	<5.63E+01	0.00E+00	5.63E+01
					Co-60	<2.80E+01	0.00E+00	2.80E+01
					Zn-65	<6.08E+01	0.00E+00	6.08E+01
					Zr-95	<4.59E+01	0.00E+00	4.59E+01
					Nb-95	<2.84E+01	0.00E+00	2.84E+01
					I-131	<4.25E+01	0.00E+00	4.25E+01
					Cs-134	<3.02E+01	0.00E+00	3.02E+01
					Cs-137	<3.00E+01	0.00E+00	3.00E+01
					BaLa-140	<3.33E+01	0.00E+00	3.33E+01
					Be-7	2.67E+03	4.38E+02	4.00E+02
					K-40	3.11E+03	5.80E+02	4.38E+02

Sample Point 12 [INDICATOR - SSW @ 0.9 miles]

Sample ID:	474880	Sample Dates:	5/7/2018 - 5/7/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<2.41E+01	0.00E+00	2.41E+01
					Co-58	<2.42E+01	0.00E+00	2.42E+01
					Fe-59	<6.19E+01	0.00E+00	6.19E+01
					Co-60	<2.17E+01	0.00E+00	2.17E+01
					Zn-65	<7.39E+01	0.00E+00	7.39E+01
					Zr-95	<4.67E+01	0.00E+00	4.67E+01
					Nb-95	<3.09E+01	0.00E+00	3.09E+01
					I-131	<3.56E+01	0.00E+00	3.56E+01
					Cs-134	<2.99E+01	0.00E+00	2.99E+01
					Cs-137	<2.46E+01	0.00E+00	2.46E+01
					BaLa-140	<4.00E+01	0.00E+00	4.00E+01
					Be-7	4.81E+02	2.46E+02	3.54E+02
					K-40	3.36E+03	6.39E+02	2.93E+02

Sample ID:	477366	Sample Dates:	6/4/2018 - 6/4/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.53E+01	0.00E+00	3.53E+01
					Co-58	<3.15E+01	0.00E+00	3.15E+01
					Fe-59	<5.51E+01	0.00E+00	5.51E+01
					Co-60	<3.87E+01	0.00E+00	3.87E+01
					Zn-65	<6.07E+01	0.00E+00	6.07E+01
					Zr-95	<7.55E+01	0.00E+00	7.55E+01
					Nb-95	<3.47E+01	0.00E+00	3.47E+01
					I-131	<3.98E+01	0.00E+00	3.98E+01
					Cs-134	<3.96E+01	0.00E+00	3.96E+01
					Cs-137	<4.71E+01	0.00E+00	4.71E+01
					BaLa-140	<1.22E+01	0.00E+00	1.22E+01
					Be-7	1.08E+03	3.33E+02	3.75E+02
					K-40	2.55E+03	6.34E+02	3.80E+02

Sample ID:	479048	Sample Dates:	7/2/2018 - 7/2/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Mn-54	<3.65E+01	0.00E+00	3.65E+01
					Co-58	<3.48E+01	0.00E+00	3.48E+01
					Fe-59	<5.80E+01	0.00E+00	5.80E+01
					Co-60	<2.23E+01	0.00E+00	2.23E+01
					Zn-65	<9.21E+01	0.00E+00	9.21E+01
					Zr-95	<5.44E+01	0.00E+00	5.44E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 12 [INDICATOR - SSW @ 0.9 miles]

Sample ID: 479048	Sample Dates: 7/2/2018 - 7/2/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Nb-95	<3.73E+01	0.00E+00	3.73E+01
			I-131	<4.09E+01	0.00E+00	4.09E+01
			Cs-134	<3.49E+01	0.00E+00	3.49E+01
			Cs-137	<3.34E+01	0.00E+00	3.34E+01
			BaLa-140	<6.11E+01	0.00E+00	6.11E+01
			Be-7	1.26E+03	3.75E+02	4.45E+02
Sample ID: 481943	Sample Dates: 8/6/2018 - 8/6/2018	MIXEDBLV	K-40	2.50E+03	6.02E+02	2.97E+02
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.29E+01	0.00E+00	2.29E+01
			Co-58	<2.29E+01	0.00E+00	2.29E+01
			Fe-59	<3.61E+01	0.00E+00	3.61E+01
			Co-60	<2.44E+01	0.00E+00	2.44E+01
			Zn-65	<4.53E+01	0.00E+00	4.53E+01
Sample ID: 484000	Sample Dates: 9/10/2018 - 9/10/2018	MIXEDBLV	Zr-95	<4.69E+01	0.00E+00	4.69E+01
			Nb-95	<2.64E+01	0.00E+00	2.64E+01
			I-131	<4.76E+01	0.00E+00	4.76E+01
			Cs-134	<2.05E+01	0.00E+00	2.05E+01
			Cs-137	<2.34E+01	0.00E+00	2.34E+01
			BaLa-140	<3.81E+01	0.00E+00	3.81E+01
			Be-7	2.09E+03	3.41E+02	2.88E+02
Sample ID: 486145	Sample Dates: 10/8/2018 - 10/8/2018	MIXEDBLV	K-40	2.54E+03	4.81E+02	3.65E+02
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.63E+01	0.00E+00	3.63E+01
			Co-58	<2.76E+01	0.00E+00	2.76E+01
			Fe-59	<6.92E+01	0.00E+00	6.92E+01
			Co-60	<3.99E+01	0.00E+00	3.99E+01
			Zn-65	<8.18E+01	0.00E+00	8.18E+01
Sample ID: 486145	Sample Dates: 10/8/2018 - 10/8/2018	MIXEDBLV	Zr-95	<5.22E+01	0.00E+00	5.22E+01
			Nb-95	<3.57E+01	0.00E+00	3.57E+01
			I-131	<3.85E+01	0.00E+00	3.85E+01
			Cs-134	<3.85E+01	0.00E+00	3.85E+01
			Cs-137	<4.01E+01	0.00E+00	4.01E+01
			BaLa-140	<5.04E+01	0.00E+00	5.04E+01
			Be-7	3.18E+03	5.75E+02	4.67E+02
Sample ID: 474882	Sample Dates: 5/7/2018 - 5/7/2018	MIXEDBLV	K-40	2.87E+03	7.36E+02	6.26E+02
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.35E+01	0.00E+00	3.35E+01
			Co-58	<4.06E+01	0.00E+00	4.06E+01
			Fe-59	<6.93E+01	0.00E+00	6.93E+01
			Co-60	<2.69E+01	0.00E+00	2.69E+01
			Zn-65	<8.53E+01	0.00E+00	8.53E+01
Sample ID: 474882	Sample Dates: 5/7/2018 - 5/7/2018	MIXEDBLV	Zr-95	<5.12E+01	0.00E+00	5.12E+01
			Nb-95	<3.55E+01	0.00E+00	3.55E+01
			I-131	<4.69E+01	0.00E+00	4.69E+01
			Cs-134	<4.06E+01	0.00E+00	4.06E+01
			Cs-137	<4.32E+01	0.00E+00	4.32E+01
			BaLa-140	<6.18E+01	0.00E+00	6.18E+01
			Be-7	3.71E+03	6.24E+02	5.14E+02
Sample ID: 474882	Sample Dates: 5/7/2018 - 5/7/2018	MIXEDBLV	K-40	2.28E+03	6.96E+02	7.87E+02
			Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.48E+01	0.00E+00	2.48E+01
			Co-58	<2.63E+01	0.00E+00	2.63E+01
			Fe-59	<5.38E+01	0.00E+00	5.38E+01
			Co-60	<2.88E+01	0.00E+00	2.88E+01
			Zn-65	<6.30E+01	0.00E+00	6.30E+01
Sample ID: 474882	Sample Dates: 5/7/2018 - 5/7/2018	MIXEDBLV	Zr-95	<4.06E+01	0.00E+00	4.06E+01
			Nb-95	<2.58E+01	0.00E+00	2.58E+01
			I-131	<2.68E+01	0.00E+00	2.68E+01
			Cs-134	<2.78E+01	0.00E+00	2.78E+01
			Cs-137	<2.09E+01	0.00E+00	2.09E+01
			BaLa-140	<3.65E+01	0.00E+00	3.65E+01

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 474882	Sample Dates: 5/7/2018 - 5/7/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.48E+01	0.00E+00	2.48E+01
			Co-58	<2.63E+01	0.00E+00	2.63E+01
			Fe-59	<5.38E+01	0.00E+00	5.38E+01
			Co-60	<2.88E+01	0.00E+00	2.88E+01
			Zn-65	<6.30E+01	0.00E+00	6.30E+01
			Zr-95	<4.06E+01	0.00E+00	4.06E+01
Sample ID: 474882	Sample Dates: 5/7/2018 - 5/7/2018	MIXEDBLV	Nb-95	<2.58E+01	0.00E+00	2.58E+01
			I-131	<2.68E+01	0.00E+00	2.68E+01
			Cs-134	<2.78E+01	0.00E+00	2.78E+01
			Cs-137	<2.09E+01	0.00E+00	2.09E+01
			BaLa-140	<3.65E+01	0.00E+00	3.65E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID: 474882	Sample Dates: 5/7/2018 - 5/7/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Be-7	2.91E+02	1.99E+02	2.99E+02
			K-40	3.11E+03	6.29E+02	3.54E+02
Sample ID: 477368	Sample Dates: 6/4/2018 - 6/4/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.29E+01	0.00E+00	2.29E+01
			Co-58	<2.11E+01	0.00E+00	2.11E+01
			Fe-59	<3.40E+01	0.00E+00	3.40E+01
			Co-60	<2.28E+01	0.00E+00	2.28E+01
			Zn-65	<4.42E+01	0.00E+00	4.42E+01
			Zr-95	<4.09E+01	0.00E+00	4.09E+01
			Nb-95	<2.01E+01	0.00E+00	2.01E+01
			I-131	<2.36E+01	0.00E+00	2.36E+01
			Cs-134	<2.43E+01	0.00E+00	2.43E+01
			Cs-137	<2.22E+01	0.00E+00	2.22E+01
			BaLa-140	<1.99E+01	0.00E+00	1.99E+01
			Be-7	5.91E+02	2.04E+02	2.68E+02
Sample ID: 479050	Sample Dates: 7/2/2018 - 7/2/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<5.63E+01	0.00E+00	5.63E+01
			Co-58	<4.76E+01	0.00E+00	4.76E+01
			Fe-59	<8.24E+01	0.00E+00	8.24E+01
			Co-60	<2.90E+01	0.00E+00	2.90E+01
			Zn-65	<8.28E+01	0.00E+00	8.28E+01
			Zr-95	<6.22E+01	0.00E+00	6.22E+01
			Nb-95	<5.06E+01	0.00E+00	5.06E+01
			I-131	<4.36E+01	0.00E+00	4.36E+01
			Cs-134	<3.28E+01	0.00E+00	3.28E+01
			Cs-137	<4.37E+01	0.00E+00	4.37E+01
			BaLa-140	<6.74E+01	0.00E+00	6.74E+01
			Be-7	1.30E+03	3.76E+02	3.72E+02
Sample ID: 481945	Sample Dates: 8/6/2018 - 8/6/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<3.42E+01	0.00E+00	3.42E+01
			Co-58	<2.82E+01	0.00E+00	2.82E+01
			Fe-59	<6.72E+01	0.00E+00	6.72E+01
			Co-60	<3.85E+01	0.00E+00	3.85E+01
			Zn-65	<4.41E+01	0.00E+00	4.41E+01
			Zr-95	<5.55E+01	0.00E+00	5.55E+01
			Nb-95	<3.96E+01	0.00E+00	3.96E+01
			I-131	<4.68E+01	0.00E+00	4.68E+01
			Cs-134	<3.36E+01	0.00E+00	3.36E+01
			Cs-137	<2.43E+01	0.00E+00	2.43E+01
			BaLa-140	<4.22E+01	0.00E+00	4.22E+01
			Be-7	1.81E+03	3.94E+02	4.09E+02
Sample ID: 484002	Sample Dates: 9/10/2018 - 9/10/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<4.59E+01	0.00E+00	4.59E+01
			Co-58	<4.13E+01	0.00E+00	4.13E+01
			Fe-59	<7.70E+01	0.00E+00	7.70E+01
			Co-60	<4.84E+01	0.00E+00	4.84E+01
			Zn-65	<8.45E+01	0.00E+00	8.45E+01
			Zr-95	<7.74E+01	0.00E+00	7.74E+01
			Nb-95	<4.38E+01	0.00E+00	4.38E+01
			I-131	<4.79E+01	0.00E+00	4.79E+01
			Cs-134	<4.60E+01	0.00E+00	4.60E+01
			Cs-137	<3.80E+01	0.00E+00	3.80E+01
			BaLa-140	<4.52E+01	0.00E+00	4.52E+01
			Be-7	1.97E+03	4.62E+02	4.67E+02
Sample ID: 486147	Sample Dates: 10/8/2018 - 10/8/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
			Mn-54	<2.67E+01	0.00E+00	2.67E+01
			Co-58	<2.58E+01	0.00E+00	2.58E+01
			Fe-59	<5.22E+01	0.00E+00	5.22E+01



HARRIS Radiological Environmental Monitoring Analysis Report - 2018 (Appendix E)

Media Type: VEGETATION Concentration (Activity): pCi/kg wet

Sample Point 63 [INDICATOR - SW @ 0.6 miles]

Sample ID:	486147	Sample Dates:	10/8/2018 - 10/8/2018	MIXEDBLV	Nuclide	Activity	2 Sigma Error	MDA
					Co-60	<3.08E+01	0.00E+00	3.08E+01
					Zn-65	<6.33E+01	0.00E+00	6.33E+01
					Zr-95	<5.69E+01	0.00E+00	5.69E+01
					Nb-95	<3.13E+01	0.00E+00	3.13E+01
					I-131	<4.46E+01	0.00E+00	4.46E+01
					Cs-134	<2.91E+01	0.00E+00	2.91E+01
					Cs-137	<2.19E+01	0.00E+00	2.19E+01
					BaLa-140	<3.81E+01	0.00E+00	3.81E+01
					Be-7	2.80E+03	4.37E+02	3.88E+02
					K-40	3.08E+03	5.75E+02	4.65E+02

APPENDIX F

ERRATA TO
PREVIOUS REPORTS

2018

APPENDIX F

ERRATA TO THE 2018 HNP AREOR

There are no errata to be appended to the 2018 HNP AREOR.