

**MAXEY FLATS
NUCLEAR DISPOSAL SITE
CALENDAR YEAR 2010**

SUMMARY REPORT

February 2011

Prepared by

**The University of Kentucky Water Resources Research Institute
for the
Commonwealth of Kentucky
Cabinet for Health and Family Services
Department for Public Health
Division of Public Health Protection and Safety
Radiation Health Branch
Radiation/Environmental Monitoring Section**

MFNDS CY2010 SUMMARY REPORT

TABLE OF CONTENTS

LIST OF TABLES	II
INTRODUCTION.....	1
LABORATORY CONSIDERATIONS	2
EAST MAIN DRAIN SEEP MONITORING	2
EAST MAIN DRAIN MONITORING	4
USGS MONITORING WELL SAMPLING	7
CY2010 OBSERVATIONS FOR WATER FROM USGS MONITORING WELLS.....	8
SUMMARY OF EXTENDED RADIONUCLIDE ANALYSES	9
REGULATORY & PUBLIC HEALTH ASSESSMENT	11
CONCLUSIONS	15
APPENDICES.....	16
APPENDIX 1. Surface Water Summary Data.....	1
APPENDIX 2. Groundwater Summary Data	1
APPENDIX 3. ISCO Surface-water Data.....	1
APPENDIX 4. Figures.....	1
APPENDIX 5 – Maxey Flats Data Summaries	1

LIST OF TABLES

TABLE 1-1. CY2010 East Drain Seep Data	3
TABLE 1-2. East Hillside Annual Seep Data	3
TABLE 1-3. Strontium-90 (⁹⁰Sr) surface water data for CY2010	5
TABLE 1-3, continued. Strontium-90 (⁹⁰Sr) surface water data for CY2010	6
TABLE 1-4a. USGS Monitoring Well Uranium and Plutonium Data April 2010	10
TABLE 1-4b. USGS Monitoring Well Uranium and Plutonium Data October 2010	10
TABLE 1-5. USGS Monitoring Well Strontium-90 Data April/October 2010	10
TABLE 1-6. USGS Monitoring Well Cobalt-60 Data April/October 2010	11
TABLE 1-7. USGS Monitoring Well Carbon-14 Data April/October 2010	11
TABLE 1-8. LFS2 HTO activity trends from 1995 through 2010	13
TABLE 1-9. HTO Activity in Water at Location 113 – East Drainage Channel	13

MFNDS CY2010 SUMMARY REPORT

Introduction

One thousand eighteen (1,018) water samples were collected during calendar year (CY) 2010 from the environment within 4.5 air miles of the Maxey Flats Nuclear Disposal Site (MFNDS) (*Figure 1*). The Radiation/Environmental Monitoring Section (REMS) of the Radiation Health Branch (RHB) performed 3,125 analyses on these samples. An additional 17,166 quality control (QC) analyses were performed to ensure the accuracy and precision of the analytical results. The cited 17,166 QC analyses represent all daily, instrument, and run QC analyses. In previous reports QC numbers did not include all these QC activities. The total QC analyses represent the actual QC analyses numbers for 2010. Data was validated by an independent third party.

Surface water and groundwater samples were collected from the MFNDS and its environs in CY2010. Surface water samples were collected from on-site streams (within the original licensed site area), off-site streams (outside the original licensed area), drains, washes, ditches, and retention basins. Groundwater samples were collected from drinking-water wells and United States Geological Survey (USGS) monitoring wells. Samples were also collected from the public water supply in Hillsboro, Kentucky. Analytical data generated from the MFNDS sampling locations is provided in data summaries.

In CY2010, the REMS conducted extended radionuclide analyses on groundwater samples from the USGS monitoring wells outside the restricted area and on samples from select surface water locations and seeps. Extended radionuclide analyses of monitoring-well groundwater, surface water, and seep-water samples provided the RHB with information regarding contaminant migration from the burial trenches following completion of Initial Remedial Phase Superfund activities.

Data collected during 2010 was used to assess whether the actions implemented during the Initial Remedial Phase under Superfund at the MFNDS were successful in meeting remedial goals. Assessment of validated data from monitoring wells, seeps, and surface water locations indicate that ex-filtration of leachate from the trenches continues to occur at the MFNDS. The data collected to date does not support the U.S. Environmental Protection Agency's (USEPA) conclusion in their Second Five-Year Report. The Initial Remedial Phase of the Superfund remediation has been completed and certified by the USEPA. The *Five-Year Review Report (Second Five-Year Report) for the Maxey Flats Disposal Site Fleming County, Kentucky, United States Environmental Protection Agency – Region 2, Atlanta, Georgia, September 2007* states on page 35:

“Remedial action objectives for the Site are being met. The continued release of contaminants to bedrock, groundwater, sediment, and surface water has been mitigated.”

Assessment of CY2010 data provides continuing evidence that releases to the environment continue to occur at the MFNDS. Releases of radionuclides to bedrock, groundwater, surface water, and sediment have not been mitigated by the Initial Remedial Phase at the MFNDS.

Laboratory Considerations

The sample minimum detectable activity (MDA) for tritiated water (HTO) measurements by the REMS laboratory ranged from 0.3 picocuries/milliliter (pCi/ml) for 5.0 ml sample aliquots used in the analysis of all on-site, off-site, drinking wells, some monitoring wells, and soil water samplers to 16.5 pCi/ml for 0.1 ml aliquots used in the analysis of various and monitoring well water samples. The MDA for gross alpha-particle activity is sample volume dependent and was approximately 2.0 pCi/l for 200 ml aliquots that increased with a decrease in sample aliquot volume. The MDA for gross beta-particle activity is also sample volume dependent and was approximately 4.0-5.0 pCi/l for 200 ml aliquots with a corresponding increase in the MDA as sample volume aliquots decreased.

Background and Off-Site Monitoring

Mean HTO activity for sample locations ranged from less than the MDA at background and off-site sampling locations, to 64.7 pCi/ml at the legal site license boundary, Location 144, in the East Main Drainage Channel. Background and off-site surface-water sample locations (**Figure 1**) included; Crane Creek (ST119) on Highway 32, Crane Creek on Rawlings Road (ST121), Fox Creek off Highway 158 (ST130), Fox Creek on Highway 111 (ST136), Rock Lick Creek above its confluence with No-Name Creek (ST122), and Rock Lick Road at the first bridge (ST101).

HTO activity in groundwater samples from the background drinking-water well, ST112, north of the site at Highway 1895 was below the laboratory reported sample MDAs (**Figure 2**). The February, May, August and October well water samples for calendar year 2010 from ST142 had HTO activity above laboratory reported sample MDAs.

East Main Drain Seep Monitoring

Samples collected from a biomonitoring plot in 1990 established the contamination zone on the East Main Drain Hillside. The plume of HTO activity associated with the seeps on the East Main Drain Hillside was mapped by using data from the biomonitoring network. The biomonitoring plot results indicated that HTO moves through the colluvium on the East Main Drain Hillside to the East Main Drainage Channel above the 800' elevation (above Location 113). REMS personnel have monitored the East Main Drain Hillside seeps since 1990.

Table 1-1 presents the HTO data for LFS2 seep on the East Main Drain Hillside (**Figure 3**) from January through December 2010. This data indicates that a pulse of HTO activity in groundwater continues to migrate from the 40-Series trenches to the East Main Drain Hillside. Since this movement is most likely through fractures in the Upper/Lower Farmers Members underlying the East Side of the site, it may have been difficult to mitigate during remediation of the facility. The REMS continues to monitor the East Main Drain Hillside for further evidence of radionuclide activity.

TABLE 1-1. CY2010 East Drain Seep Data

Tritium data for Water Samples were collected from LFS2 Seep on the East Hillside at the Maxey Flats Nuclear Disposal Site.

Collection Date	HTO (pCi/ml)	CU (pCi/ml)	MDC (pCi/ml)	Validation Code
1/25/2010	6.686E+02	1.892E+01	3.651E+01	=
2/23/2010	1.596E+03	2.907E+00	3.815E-01	=
3/17/2010	19.70E+03	3.137E+00	3.524E-01	=
4/7/2010	1.957E+03	3.235E+00	3.686E-01	=
4/21/2010	1.295E+03	1.954E+01	1.828E+01	=
5/20/2010	1.324E+03	2.668E+00	3.664E-01	=
6/29/2010	1.281E+03	2.436E+00	3.144E-01	=
7/22/2010	1.099E+03	2.281E+00	3.173E-01	=
8/11/2010	3.893E+03	4.304E+00	3.259E-01	=
9/1/2010	4.509E+03	4.632E+00	3.048E-01	=
10/14/2010	3.571E+03	1.335E+00	3.215E-01	=
11/14/2010	5.534E+02	1.634E+00	2.966E-01	=
12/20/2010	6.940E+02	1.957E+00	3.874E-01	=

HTO = tritium; MDC = Minimum Detectable Concentration; CU=Counting Uncertainty; Validation code "=" indicates no qualifier is necessary

East Drain seeps USF1, LFS2, and EMR2 were collected during the annual seep sample collection in CY2010. The data for these East Main Drain Hillside Seeps is provided in Table 1-2.

TABLE 1-2. East Hillside Annual Seep Data

Annual Seeps located at Farmers outcrops East Hillside April 21, 2010

Location	HTO	CU	Gross alpha		Gross beta		Gamma
	pCi/ml		pCi/l	CU	pCi/l	CU	pCi/l
UFS1	6124	41	<i>-19.3</i>	7.4	45.8	7.3	<MDA
UFSN1							
LFS2	1855	22	<i>2.4</i>	3.4	7.9	4.4	<MDA
EMR1							
EMR2	5388	39	<i>-11.3</i>	7.2	54.9	7.5	<MDA
EMR3							
EML1							
EML2							
EML3							

Italics = Reported value below sample MDA or error greater than 50% of the reported value. MDA=Minimum Detectable ACTIVITY. CU=Counting Uncertainty.

Elevated HTO activity was detected in samples collected from the Farmers outcrop seeps to the North of the East Main Drain at the three (3) locations sampled in CY2010. Water collected

from locations at the East Main Drain Seeps on April 21, 2010 was also analyzed for strontium (^{90}Sr), uranium and plutonium isotopes, and gamma emitting radionuclides.

East Main Drain Monitoring

The HTO activity at East Main Drain sampling locations 113 and 144 (*Figure 4*) is representative of the discharge to surface water of leachate-contaminated groundwater that has migrated through the subsurface from the 40-Series disposal trenches to the East Main Drainage Channel. The average HTO activity at Location 144 in the East Main Drainage Channel was 52 pCi/ml in CY2002, 60 pCi/ml in 2003, 90 pCi/ml in 2004, 50 pCi/ml in 2005, 52 pCi/ml in 2006, 78 pCi/ml in 2007, 35 pCi/ml in 2008, 66 pCi/ml in 2009, and 64.7 pCi/ml in 2010. The average HTO activity at location 113 was 64 pCi/ml in CY2002, 84 pCi/ml in 2003, 153 pCi/ml in 2004, 106 pCi/ml in 2005, 126 pCi/ml in 2006, 181 pCi/ml in 2007, 82 pCi/ml in 2008, 187 pCi/ml in 2009 and 132 pCi/ml in 2010.

The HTO activity in surface water at East Main Drainage Channel locations 113 and 144 remain elevated relative to HTO activity upgradient and upslope at the outlet of the East Main Drainage Retention Pond (EDOUTL). Based on four (4) samples collected at the EDOUTL in 2010, the average HTO in surface water at EDOUTL was 0.7 pCi/ml as compared to 64.7 and 132 pCi/ml for surface water at locations 144 and 113, respectively.

The mean HTO activity for the East Drain ISCO automatic sampler (EDRN) at 800 feet above mean sea level (MSL) in the East Main Drainage Channel (*Figure 5*) was 103 pCi/ml in 2002, 106 pCi/ml in 2003, 133 pCi/ml in 2004, 111 pCi/ml in 2005, 82 pCi/ml in 2006, 135 pCi/ml in 2007, 90 pCi/ml in 2008, 140 pCi/ml in 2009, and 137 pCi/ml in 2010. An automatic sampler composites surface water samples on a daily basis. EDRN HTO activity in surface water for: (1) CY2006 ranged from 1.9 to 269 pCi/ml, (2) CY2007 ranged from 0.2 to 525 pCi/ml, (3) CY2008 ranged from 1.5 to 288 pCi/ml (4) CY2009 ranged from 3.7 to 464 pCi/ml and (5) CY2010 ranged from 3.6 to 388 pCi/ml.

The results of surface water ^{90}Sr analyses for the first (1st) through fourth (4th) quarters of CY2010 are presented in **Table 1-3**. The results of surface water ^{90}Sr analyses for the East Main Drain seeps is provided in Appendix 1.

TABLE 1-3. Strontium-90 (⁹⁰Sr) surface water data for CY2010

Strontium-90 Analysis of Water Samples Collected at the Maxey Flats
Nuclear Disposal Site on February 23, 2010.

	⁹⁰ Sr	
Location	pCi/liter	CU*
102	2.2	0.8
103	1.9	0.8
106	2.2	0.7
107	2.5	0.8
122	0.8	0.7
143	1.5	0.7
144	-1.0	0.6
145	0.5	0.7

Bold Italics = Reported Values Below MDA; *CU=Counting Uncertainty

Strontium-90 Analysis of Water Samples Collected at the Maxey Flats
Nuclear Disposal Site on April 7, 2010.

	⁹⁰ Sr	
Location	pCi/liter	CU*
102	0.14	0.7
103	-5.8	0.7
106	-0.3	0.7
107	1.8	0.8
122	0.2	0.7
143	0.1	0.7
144	0.8	0.8
145	0.1	0.7

Bold Italics = Reported Values Below MDA; CU=Counting Uncertainty

TABLE 1-3, continued. Strontium-90 (⁹⁰Sr) surface water data for CY2010

Strontium-90 Analysis of Water Samples Collected at the Maxey Flats
Nuclear Disposal Site on August 11, 2010.

Location	⁹⁰ Sr pCi/liter	CU*
102	<i>2.0</i>	1.0
103	<i>-0.3</i>	1.0
106	<i>1.8</i>	1.2
107	<i>1.9</i>	1.2
122	<i>0.3</i>	0.9
143	<i>-0.7</i>	0.9
144	<i>1.0</i>	1.0
145	<i>0.3</i>	1.2

Bold Italics = Reported Values Below MDA; CU=Counting Uncertainty

Strontium-90 Analysis of Water Samples Collected at the Maxey Flats
Nuclear Disposal Site on October 14, 2010.

Location	⁹⁰ Sr pCi/liter	CU*
102	<i>0.2</i>	1.2
103	<i>-0.5</i>	1.1
106	<i>-0.6</i>	1.2
107	<i>-1.33</i>	1.2
122	<i>-0.7</i>	1.2
143	<i>-1.9</i>	1.1
144	<i>-1.6</i>	1.1
145	<i>-0.3</i>	1.2

Bold Italics = Reported Values Below MDA; CU=Counting Uncertainty

West Hillside Surface Water Monitoring

During the Initial Remedial Phase of the Superfund Action, releases of HTO occurred from the Earthen Mound Concrete Bunkers (EMCB) that was constructed for disposition of trench leachate. These HTO releases occurred from 1999 through 2000 and impacted surface water in Wash 107. The data in Appendix 1 for Locations F107, G107, and I107 demonstrate that by 2004 the average annual level of HTO at location I107 had decreased to less than the detection limit. The data for location I107 established the releases that occurred during the Initial Remedial Phase of the Superfund Action are no longer impacting Wash 107. The data in Appendix 1 also shows that the HTO levels at F107 and G107 in Wash 107 continue to be impacted by a source of HTO other than the release that occurred during the Initial Remedial Phase of the Superfund action. The source of HTO impacting Wash 107 is the western series trenches. This data establishes releases from the trenches via the fractures in the lower sandstone marker bed to the west hillside colluvium with release to the surface water in Wash 107 are still a major concern for the long-term stability of the site.

Surface water sampling locations in Wash 107 from the middle of the hillside, locations F107 and G107, downgradient/downslope to the dirt road, W7ATRD, have elevated HTO activity compared to levels of HTO activity above the middle of the hillside at locations H107, I107 and J10. The HTO activity in surface water sampling locations from the middle of the hillside in Wash 107 to downslope locations at the bottom of the west hillside indicate that HTO continues to move from the western series disposal trenches to the west hillside via subsurface pathways. This data supports the continuing release of HTO from the disposal site to the west hillside subsequent to the Initial Remedial Phase of the Superfund Action at the MFNDS. The remedial action at the site has not impacted release of HTO from the disposal trenches to the west hillside.

The mean HTO activity for location 102 grab-samples collected at the junction of Rock Lick Creek and Highway 158 was 0.6 pCi/ml in 2002, 0.7 pCi/ml in 2003, 0.9 pCi/ml in 2004, 0.8 pCi/ml in 2005, 0.6 pCi/ml in 2006, 0.9 pCi/ml in 2007, 0.7 pCi/ml in 2008, 0.6 in 2009, and 1.4 in 2010. The mean HTO activity in Drip Springs Creek Location 103 grab-samples (Figure 8) was 0.7 pCi/ml in 2002, 0.6 pCi/ml in 2003, 0.6 pCi/ml in 2004 0.6 pCi/ml in 2005, 0.4 pCi/ml in 2006, 0.6 pCi/ml in 2007, 0.3 pCi/ml in 2008, 0.4 pCi/ml in 2009, and 0.5 pCi/ml in 2010. The increase in HTO activity at location 102 represents almost a two fold (2) increase in HTO activity as compared to previous years. This increase in HTO activity at location 102 does not appear to correlate with the apparent relative stable HTO activity in the East Main Drainage Channel.

USGS Monitoring Well Sampling

Extended radionuclide analysis of water from selected USGS monitoring wells (*Figure 7*) continued in CY2010. Extended radionuclide analyses were evaluated in order to monitor the flux of contaminants in groundwater contaminant plumes located under the Northwest corner of the Restricted Area. All monitoring wells along the eastern side of the Restricted Area were abandoned during the Initial Remedial Phase. Extended radionuclide data collected during CY2010 along with data collected from CY2000 through 2010 is critical for establishing trends that can be utilized for assessment of the performance and effectiveness of Initial Remedial Phase actions.

Extended radionuclide analyses were conducted for USGS monitoring well groundwater samples collected in April and October 2010. Extended radionuclide analyses included; Strontium-90 (^{90}Sr), carbon-14 (^{14}C), plutonium-238 (^{238}Pu), plutonium-239 (^{239}Pu), uranium-238 (^{238}U), uranium-235 (^{235}U), and uranium-234 (^{234}U). Gross alpha and beta analysis and gamma spectroscopy were also conducted on the samples.

CY2010 Observations for Water from USGS Monitoring Wells

- Elevated gross alpha-particle activity was detected in water from monitoring well UE2(J) in April 2010 and well UK1 in October. The gross alpha-particle activity data for water from well UE2 collected in April 2010 had a high counting uncertainty associated with the measurements. Therefore, the result is reported as uncertain “J” for the water sample from that location.
- Specific alpha spectroscopy analyses were performed for the following radionuclides: ^{234}U , ^{235}U , ^{238}U , ^{238}Pu , and ^{239}Pu . Tables 1-4a and 1-4b present the activity of these isotopes for water from wells UE2, UF2, UK1, N2B, and UF10a.
- Based on the data in Table 1-4a and 1-4b, alpha-emitting radionuclides are distributed in Lower Marker Bed (LMB) groundwater in the north/northwest portion of the Restricted Area and adjacent areas.
- Groundwater from wells UE2, UF2, and UK1 had ^{234}U activity that exceeded the sample specific MDA for April and wells UE2, UF2, UK1, N2B, and UF10a had ^{234}U activity that exceeded the sample specific MDA for October 2010 samples.
- Wells UE2, UF2, and UK1 had ^{238}U activity in groundwater that exceed the sample specific MDA for samples collected in April. Wells UE2, UK1, N2B, and UF10a had ^{238}U activity in groundwater that exceed the sample specific MDA for samples collected in October. Well UK1 did not have ^{238}U activity that exceed the sample specific MDA in October and well N2B did not have ^{238}U activity that exceed the sample specific MDA April. UF10a was not sampled in April.
- The maximum activity for ^{238}U in the monitoring wells tested ranged from 6/1 pCi/l (activity/counting uncertainty) in well UF2 to 0.2/0.2 pCi/l in wells UF2 and N2B.
- Uranium-235 activity was below the MDA or had counting uncertainty greater than 50% of the activity for monitoring well water samples.
- The activity of ^{234}U exceeded the activity of ^{238}U in the wells listed in Tables 1-4a and 1-4b suggesting that natural or depleted uranium is not the source of the ^{234}U or that the activity may be due to another isotope of uranium. Based on analysis of alpha spectroscopy data by REMS staff, the elevated activity may be due to the presence of ^{233}U .
- In October 2010 the $^{233/234}\text{U}$ activity in water from USGS monitoring well UK1 was 21/2 pCi/l (activity/counting uncertainty), UF2 was 19/2 pCi/l, UE2 was 11/1 pCi/l, N2B was 13/2 pCi/l and UF10a was 3/0.6 pCi/l.
- In April 2010, the $^{233/234}\text{U}$ activity in well UK1 was 9/2 pCi/l (activity/counting uncertainty), UF2 was 19/2 pCi/l, UE2 was 17/2 pCi/l, and N2B was 0.3/0.3 pCi/l.
- If the activity is due to the presence of $^{233/234}\text{U}$, the maximum activity of 21/2 pCi/l is 7% of the limit of 300 pCi/l imposed by 902 KAR 100:019, for controlled release of $^{233/234}\text{U}$ outside the boundary of a disposal trench.
- Plutonium-238 activity was above the sample-specific MDA in wells UE2, UF2, and UK1 for both April and October 2010. Water from well N2B was below the sample specific MDA for April but greater than the sample specific MDA for October. UF10a was below the sample specific MDA for October 2010.

- Plutonium-239 activity was below sample specific MDAs or had counting uncertainties greater than 50% in wells UE2, UF2, UK1, N2B, and UF10a.
- The maximum activity of ^{238}Pu , 13/1 pCi/L was observed in well UK1.
- The ^{238}Pu activity in CY2010 for UK1 was 65% of the limit of 20 pCi/l imposed by 902 KAR 100:019, for controlled release of ^{238}Pu outside the boundary of a disposal trench.
- Strontium-90 activity was above sample specific MDAs in water from USGS monitoring wells UE2, UF2, and UK1 for both April and October collection dates (Table 1-5). Strontium-90 activity in well water from N2B was less than the sample specific MDA for April but greater than the sample specific MDA for October. Strontium-90 activity was less than the sample specific MDA in water from USGS monitoring wells UF10a for October (UF10a was not collected in April).
- The maximum ^{90}Sr activity for groundwater from well UK1 was 370/16 pCi/l (activity/counting uncertainty) which is less than the 500 pCi/l limit imposed by 902 KAR 100:019 for controlled release of ^{90}Sr outside the boundary of a disposal trench.
- Cobalt-60 (^{60}Co) activity in groundwater was above the sample specific MDA in well UK 1 for April 2010 (Table 1-6). ^{60}Co activity in well water from wells UF2 and N2B was above sample specific MDAs in the October 2010 (Table 1-6).
- The ^{14}C activity was above sample specific MDAs in USGS monitoring wells UK1, UF2, UE2, and N2B (Table 1-7). Carbon-14 activity (April) for wells UE2, UK1, and N2B is of questionable quality and is noted as such in Table 1-7.
- Cesium-137 activity in groundwater samples from USGS monitoring wells was below the REMS sample specific MDAs.

Summary of Extended Radionuclide Analyses

- Based on historical and CY2010 extended radionuclide analyses, radionuclides in groundwater continue to migrate away from the disposal trenches at elevated levels to the west and north/northwest corner of the Restricted Area. This data provides convincing evidence to the contrary of the statement “Remedial action objectives for the Site are being met. The continued release of contaminants to bedrock, groundwater, sediment, and surface water has been mitigated.” made in the *Five-Year Review Report (Second Five-Year report) for the Maxey Flats Disposal Site Fleming County, Kentucky, United States Environmental Protection Agency – Region 2, Atlanta, Georgia, September 2007*. **Clearly, release of radionuclides to bedrock, groundwater, surface water, and sediment have not been mitigated by the Initial Remedial Phase at the MFNDS.**
- Radionuclide movement away from the disposal trenches is most likely controlled by: 1) The potentiometric gradient in the Lower Sandstone Marker Bed (LMB) which is radially away from the center of the Restricted Area; 2) The dip of the LMB which is radially away from the center of the Restricted Area; and 3) by the fracture orientation of the LMB.
- Extended radionuclide data indicates that Initial Remedial Phase remedial measures may not have been in place for sufficient time to impact the migration of radionuclides or is not functioning to prevent continued releases to the environment.
- The continued monitoring of radionuclides in groundwater is critical during the Interim Maintenance Period (IMP) because elevated levels of radionuclides continue migration toward the west hillside and north/northwest area of the MFNDS and the long-term potential

for erosion to impact the discharge of groundwater to the surface resulting in increased radionuclide activity in surface water.

TABLE 1-4a. USGS Monitoring Well Uranium and Plutonium Data April 2010

Activity in pCi/l				
USGS Well	²³⁸ U/CU	²³⁴ U/CU	²³⁸ Pu/CU	²³⁹ Pu/CU
UE2	0.9/0.4	17/2	1/0.5	0.05/0.1
UF2	7/1	19/2	1/0.4	0.08/0.2
UK1	0.9/0.5	9/2	2/0.6	0.08/0.2
N2B	0.2/0.2	0.3/0.3	0.3/0.3	0.09/0.2
UF10a	NA	NA	NA	NA

Bold Italics = Reported Value Below MDA or a counting uncertainty of greater than 50%; Italics = uncertainty for measurement ("J" result); NA = Not Analyzed/Collected; CU=Counting Uncertainty

TABLE 1-4b. USGS Monitoring Well Uranium and Plutonium Data October 2010

Activity/CU in pCi/l				
USGS Well	²³⁸ U/CU	²³⁴ U/CU	²³⁸ Pu/CU	²³⁹ Pu/CU
UE2	0.4/0.2	11/1	1/0.5	0.05/0.1
UF2	0.2/0.2	19/2	4/0.6	0.3/0.1
UK1	1/0.4	21/2	13/1	0/0.04
N2B	0.7/0.3	14/2	3/0.6	0.09/0.1
UF10a	2/0.4	3/0.6	0.1/0.1	0.05/0.07

Bold Italics = Reported Value Below MDA or a counting uncertainty of greater than 50%; Italics = uncertainty for measurement ("J" result); NA = Not Analyzed/Collected; CU=Counting Uncertainty

TABLE 1-5. USGS Monitoring Well Strontium-90 Data April/October 2010

⁹⁰ Sr Activity/CU in pCi/l		
USGS Well	April	October
UE2	123/9	77/5
UF2	73/8	259/9
UK1	370/6	126/7
N2B	2/5	55/4
UF10a	NA	3/3

Bold Italics = Reported Value Below MDA or a counting uncertainty of greater than 50%; NA = Not Analyzed/Collected; CU=Counting Uncertainty

TABLE 1-6. USGS Monitoring Well Cobalt-60 Data April/October 2010

⁶⁰ Co Activity/CU in pCi/l		
USGS Well	April	October
UE2	<i>20/17</i>	<i>17/17</i>
UF2	<i>8/19</i>	29/11
UK1	23/8	17/9
N2B	<i>-6/20</i>	<i>11/10</i>
UF10a	NA	<i>10/17</i>

Bold Italics = Reported Value Below MDA or a counting uncertainty of greater than 50%; Italics = uncertainty for measurement ("J" result); NS = Not Analyzed/Collected e; CU=Counting Uncertainty

TABLE 1-7. USGS Monitoring Well Carbon-14 Data April/October 2010

¹⁴ C Activity/CU in pCi/l		
USGS Well	April	October
UE2	457/42	507/55
UF2	626/47	576/50
UK1	166/52	904/68
N2B	<i>17/22</i>	560/56
UF10a	NA	<i>23/35</i>

Bold Italics = Reported Value Below MDA or a counting uncertainty of greater than 50%; Italics = uncertainty for measurement ("J" result); NS = Not Analyzed/Collected; CU=Counting Uncertainty; *data is of question quality based on historical values

Regulatory & Public Health Assessment

Kentucky Administrative Regulation, 902 KAR 100:022, Section 18 requires that the annual dose at the site boundary of a low-level radioactive disposal site not exceed 25 mrem. Kentucky Administrative Regulation 902 KAR 100:015, Section 2 establishes releases be maintained "As Low As Reasonably Achievable" (ALARA). A primary focus of a radiation protection program is to maintain concentration/doses ALARA. The license for the MFNDS and other licenses issued in the Commonwealth of Kentucky for the handling and release of radioactive material are based on ALARA requirements in order to minimize radiation doses to workers and members of the public.

The HTO activities at East Main Drain Hillside seep locations inside the site boundary need to be compared to a limit of 1,000 pCi/ml imposed by 902 KAR 100:019, Section 44(7) for the controlled release of tritium outside the boundary of the trenches and the Restricted Area. HTO activity in CY2005 at the lower farmers seep (LFS2) ranged from 1380 to 7170 pCi/ml with an average activity of 2810 pCi/ml. HTO activity in CY2006 at LFS2 ranged from 3110 to 6290 pCi/ml with an average activity of 4570 pCi/ml. In CY2007 HTO activity at LFS2 ranged from 1380 to 5920 pCi/ml with an average activity of 3530 pCi/ml. In CY2008 HTO activity at LFS2

ranged from 999 to 5300 pCi/ml with an average activity of 2490 pCi/ml. In CY2009 HTO activity at LFS2 ranged from 1300 to 4390 pCi/ml with an average activity of 2700 pCi/ml. In CY2010 HTO activity at LFS ranged from 357 pCi/ml to 4510 pCi/ml with an average activity of 1640 pCi/ml. The LFS2 HTO activity exceeds the established release limit of 1,000 pCi/ml for HTO. These temporal HTO activity trends do not reflect cessation of releases from the trenches and Restricted Area and continue to exceed the release criteria in 902 KAR 100:019, Section 44(7).

The chart below (Figure 1.8) provides the trend line for the LFS2 HTO activity from 1995 through 2010. There is a downward trend in the HTO activity which is expected because the graph represents a time frame of 13 years, which corresponds to greater than one HTO half-life (12.43 years). Based on the graph for HTO activity at the Lower Farmers Seep, it is not clear whether the Initial Remedial Phase has significantly impacted HTO activity at the Lower Farmers Seep on the East Main Drain hillside. This data is contrary to the statement “Remedial action objectives for the Site are being met. The continued release of contaminants to bedrock, groundwater, sediment, and surface water has been mitigated.” made in the *Five-Year Review Report (Second Five-Year report) for the Maxey Flats Disposal Site Fleming County, Kentucky, United States Environmental Protection Agency – Region 2, Atlanta, Georgia, September 2007.*

Release of HTO to bedrock, groundwater, and surface water has not clearly been mitigated by the Initial Remedial Phase remedial activities.

Surface water sample location 113 is in the East Main Drainage Channel and within the MFNDS old site-license boundary. CY2010 mean HTO activity at ISCO EDRN was 137 pCi/ml which is 13.7% of the 1,000 pCi/ml limit in 902 KAR 100:019, Section 44(7) for the release of HTO outside the boundary of the trenches and the Restricted Area (Table 1.9). CY2009 mean HTO activity at ISCO EDRN was 140 pCi/ml which is 14% of the 1,000 pCi/ml limit in 902 KAR 100:019, Section 44(7) for the release of HTO outside the boundary of the trenches and the Restricted Area (Table 1.9). CY2008 mean HTO activity at ISCO EDRN was 90.2 pCi/ml which is 9.2% of the 1,000 pCi/ml limit in 902 KAR 100:019, Section 44(7) for the release of HTO outside the boundary of the trenches and the Restricted Area (Table 1.9). CY2007 mean HTO activity at ISCO EDRN was 135 pCi/ml which is 13.5% of the 1,000 pCi/ml limit in 902 KAR 100:019, Section 44(7) for the release of HTO outside the boundary of the trenches and the Restricted Area. CY2006 EDRN mean HTO activity was 126 pCi/ml which and 12.6% of the release limit. CY2005 ISCO EDRN mean HTO activity was 106 pCi/ml which is 10.6% of the release limit. The HTO activity remains elevated over the past nine (9) years at location 113. The Table 1-9 below provides the annual average HTO activity and the range of HTO activity in surface water at Location 113.

Surface water sampling location 144 is at the MFNDS old site license boundary in the East Main Drainage Channel. The average annual HTO activity for Location 144 was 52 pCi/ml during CY2002, 60 pCi/ml during CY2003, 90 pCi/ml in CY2004, 50 pCi/ml in CY2005, 54 pCi/ml in 2006, 78 pCi/ml in 2007, 35 pCi/ml in 2008, 66 in 2009, and 65 pCi/ml in 2010. This data along with the data for the Lower Farmers Seep and Location 113 indicates that release of HTO from the disposal trenches continues to impact the East Drainage Channel.

With the completion of the Initial Remedial Phase all surface water from the Initial Remedial Phase cap has been diverted to the East Main Drainage Channel. The increased discharge (volume) of surface water with a mean HTO activity of approximately 0.7 pCi/l from the East Retention Pond to the East Main Drainage Channel should be diluting the HTO activity. However, HTO activity from 2002 to 2010 at locations 113 (EDRN) and LFS2 indicate that the

remedial activities may not have mitigated releases to the East Main Drain hillside and East Main Drainage Channel.

TABLE 1-8. LFS2 HTO activity trends from 1995 through 2010

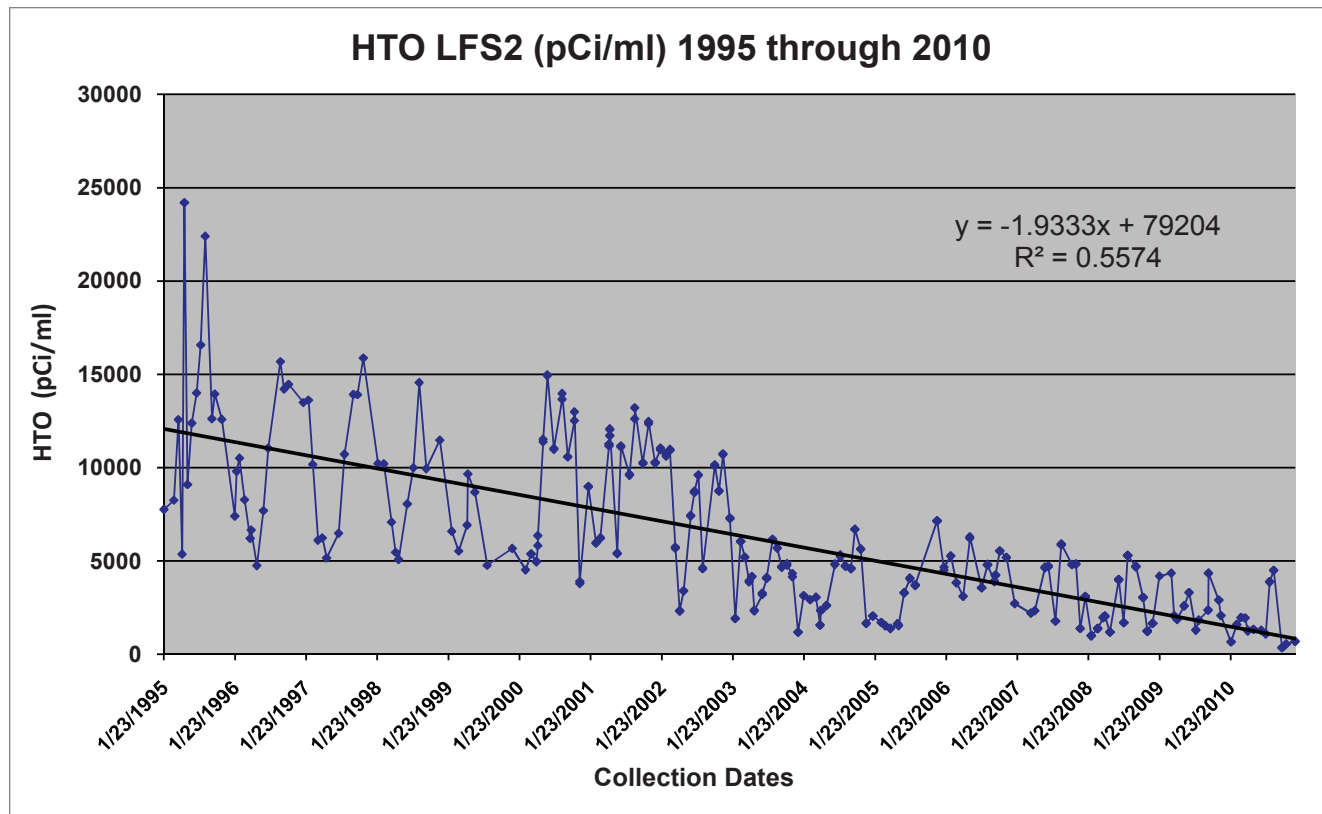


TABLE 1-9. HTO Activity in Water at Location 113 – East Drainage Channel

Year	Annual Average (pCi/ml)	Range	
		Lower (pCi/ml)	Upper (pCi/ml)
2010	132	0.9	393
2009	140	3.9	464
2008	90.2	1.54	288
2007	135	0.2	535
2006	126	34	308
2005	106	58	290
2004	153	28	237
2003	84	10	258
2002	64	7	178

With the addition of the buffer zone acquired during the Initial Remedial Phase the CERCLA compliance point was set at Location 102. Location 102 is the CERCLA point for comparison to the 25 mrem/yr dose standard in 902 KAR 100:022. Because the license for the site has not been amended to modify the site boundary, radiation doses will continue to be calculated at location 144 in order to assess long-term statistical trends and maintain compliance with license requirements.

The dose assessment at location 144 for HTO assumes: 1) sufficient surface water is available at or one mile within the new site boundary; 2) a person resides at the location for 365 days a year; and 3) a person consumes 2 liters of water per day. Based on these hypothetical assumptions, a person consuming surface water at 64 pCi HTO/ml would receive an annual radiation dose from tritium of 3.1 millirem/year (mrem/yr). The hypothetical annual dose at location 144 would be 12.4 % of the 25 mrem/yr dose limit for the site boundary established by 902 KAR 100:022, Section 18. The annual dose for tritium was calculated using the age specific dose conversion factors in ICRP 72, *Age-dependent Doses to Members of the Public from Intake of Radionuclides: Part 5 Compilation of Ingestion Inhalation Dose Coefficient* (September 1995).

The CERCLA compliance point requires calculation of the potential dose to a receptor at location 102. This location is immediately outside buffer zone on Rock Lick Creek. Samples were collected at location 102 with a sequential sampler. The average annual CY2010 HTO activity at location 102 was 1.4 pCi/ml. Assuming surface water with an average HTO activity of 1.4 pCi/ml could be used as a drinking water source, an individual consuming 2 liters of water 365 days a year would receive an annual radiation dose of 0.16 mrem/yr from HTO. The annual radiation dose from HTO at location 102 is 0.64% of the 25 mrem/yr dose limit established by 902 KAR 100:022, Section 18 for the site boundary. The annual dose for tritium was calculated using the age specific dose conversion factors in ICRP 72, *Age-dependent Doses to Members of the Public from Intake of Radionuclides: Part 5 Compilation of Ingestion Inhalation Dose Coefficient* (September 1995).

The 3.1 mrem/year radiation dose from HTO for an individual drinking surface water at the old site boundary, location 144, in the East Main Drainage Channel, one mile upstream of the new property boundary, would result in a risk of 1.5×10^{-06} (from Risk/Dose Conversion Factors) and 2.4×10^{-06} (from Slope Factors). However, the East Main Drainage Channel is not a perennial stream and it is unlikely that sufficient water would be present to provide 2 liters of drinking water for an individual 365 days per year.

The 0.16 mrem/year radiation dose from HTO for an individual drinking surface water at Rock Lick Creek location 102, outside of the property boundary at Rock Lick Road, would result in a risk of 7.0×10^{-07} (from Risk/Dose Conversion Factors) and 8×10^{-08} (from Slope Factors). The level for total Cancer risk from the slope factor was calculated using the Radionuclide Table: Radionuclide Carcinogenicity-Slope Factors at the following site: http://www.epa.gov/radiation/heast/docs/heast2_table_4-d2_0401.pdf.

The release of elevated levels of HTO within the site boundary remains a significant long-term concern considering the potential for erosion on the east and west hillsides. Efforts were made during the Initial Remedial Phase to minimize both the release of radionuclides from the trenches and the potential for impacts by erosion of the hillslopes surrounding the disposal trenches. Analysis of CY2010 data indicates release of radionuclides from the disposal trenches continues subsequent to the Initial Remedial Phase activities. Based on analysis of CY2010 data, it is essential that sufficient monitoring be conducted to continue the evaluation of the effectiveness of the Initial Remedial Phase and to determine the potential for impacts on public health.

The International Commission on Radiation Protection (ICRP) proposed use of the effective dose (H_T) as a primary radiation protection standard and Annual Limit of Intake (ALI) as a secondary standard (ICRP Publication 30 and 60) for radiation protection. These limits were adopted by the National Council on Radiation Protection and Measurements (NCRP, Report No. 116). NCRP Report No. 116 recommended a Negligible Individual Risk Limit (NIRL) of 1 mrem/year.

The NIRL is defined as the level of average excess fatal health risk from radiation exposure from any individual source or practice below which further effort to reduce individual exposure is unwarranted.

In 2007 the REMS reduced sampling at grab sample locations surrounding the MFNDS to once every other month. This schedule was continued in 2010. This action was supported by an assessment of the previous 12 years of data collected at the MFNDS by the REMS. It was determined ISCO samplers would provide sufficient samples and data for the assessment of continued releases of residual radioactive material on public health.

The REMS continues to maintain sufficient monitoring locations and collects samples at a more than adequate frequency for assessing impacts of continued releases from the disposal trench on the East Main Drain Hillside and in the East Main Drainage Channel. The sample locations and frequency needs to be maintained in order to assess present and future impacts of contaminant movement to locations within the new site boundary and to locations outside of the new site boundary. Sampling frequency allows for remedial actions to be planned and implemented and to address increases in radionuclide activity, if necessary. The REMS also has sufficient monitoring locations on the west hillside to continue to effectively monitor releases from the disposal trenches to Wash 107 and Drip Springs Creek.

Conclusions

On the basis of the data generated by the Radiation Health Branch, Department for Public Health, Cabinet for Health and Family Services during CY2010, the MFNDS does not presently pose a threat to public health.

Analyses of water from monitoring wells, seeps, and surface water locations indicate that ex-filtration of leachate from the trenches continues to occur at the MFNDS. The Initial Remedial Phase of the Superfund remediation has been completed and certified by the U.S. Environmental Protection Agency. EPA states in the *Five-Year Review Report (Second Five-Year Report) for the Maxey Flats Disposal Site Fleming County, Kentucky, United States Environmental Protection Agency – Region 2, Atlanta, Georgia, September 2007* (page 35) that “Remedial action objectives for the Site are being met. The continued release of contaminants to bedrock, groundwater, sediment, and surface water has been mitigated.” **Assessment of CY2010 data provides unequivocal evidence to the contrary. Clearly, release of radionuclides to bedrock, groundwater, surface water, and sediment have not been mitigated by the Initial Remedial Phase at the MFNDS.**

The activity of HTO and radionuclides at the perimeter of the Restricted Area were not mitigated by the Initial Remedial Phase and continue to occur. To fully appreciate the present evaluation of water infiltration/ex-filtration problems at MFNDS and the continuing release of radionuclides, it must be stressed that the existing evaluation of site conditions encompasses a snapshot in time compared to the 200 year duration of the remedial action and institutional control required by the Federal Court Ordered Consent Decree.

APPENDICES

APPENDIX 1. Surface Water Summary Data.

Mean HTO, Total Gross Alpha^a, Total Gross Beta^a Activity for 2010
in Off-Site Surface Water at the Maxey Flats Disposal Site

Location	Mean HTO (pCi/ml)	Mean Gross Beta Activity (pCi/liter)	Mean Gross Alpha Activity (pCi/liter)
101	-0.022	6.44	1.44
102	1.35	5.87	0.98
102QC	1.41	4.34	0.68
103	0.52	12.00	4.31
143	0.09	13.00	3.2
PDSKG	0.09	24.8	18.80
106	4.46	4.09	1.59
107	1.53	13.80	4.52
N107	1.17	8.02	2.77
108	0.47	22.50	19.20
112	0.05	6.29	-0.08
113	132	3.86	0.98
144	64.7	6.93	4.89
119	0.03	14.00	7.90
121	0.09	5.49	1.05
122	0.03	4.90	1.21
124	0.13	4.22	2.78
130	0.02	11.5	3.54
132	0.17	5.75	0.69
145	1.14	6.87	0.37
136	-0.003	31.60	1.19
142	0.77	13.6	9.19

a- Total Gross Alpha and Beta Activity is for unfiltered samples. Activity represents contribution for naturally occurring alpha and beta emitters and not necessarily from radioactive waste disposed at MFNDS.

Mean HTO Activity in Surface Water at Location 113 and East Pond Outlet

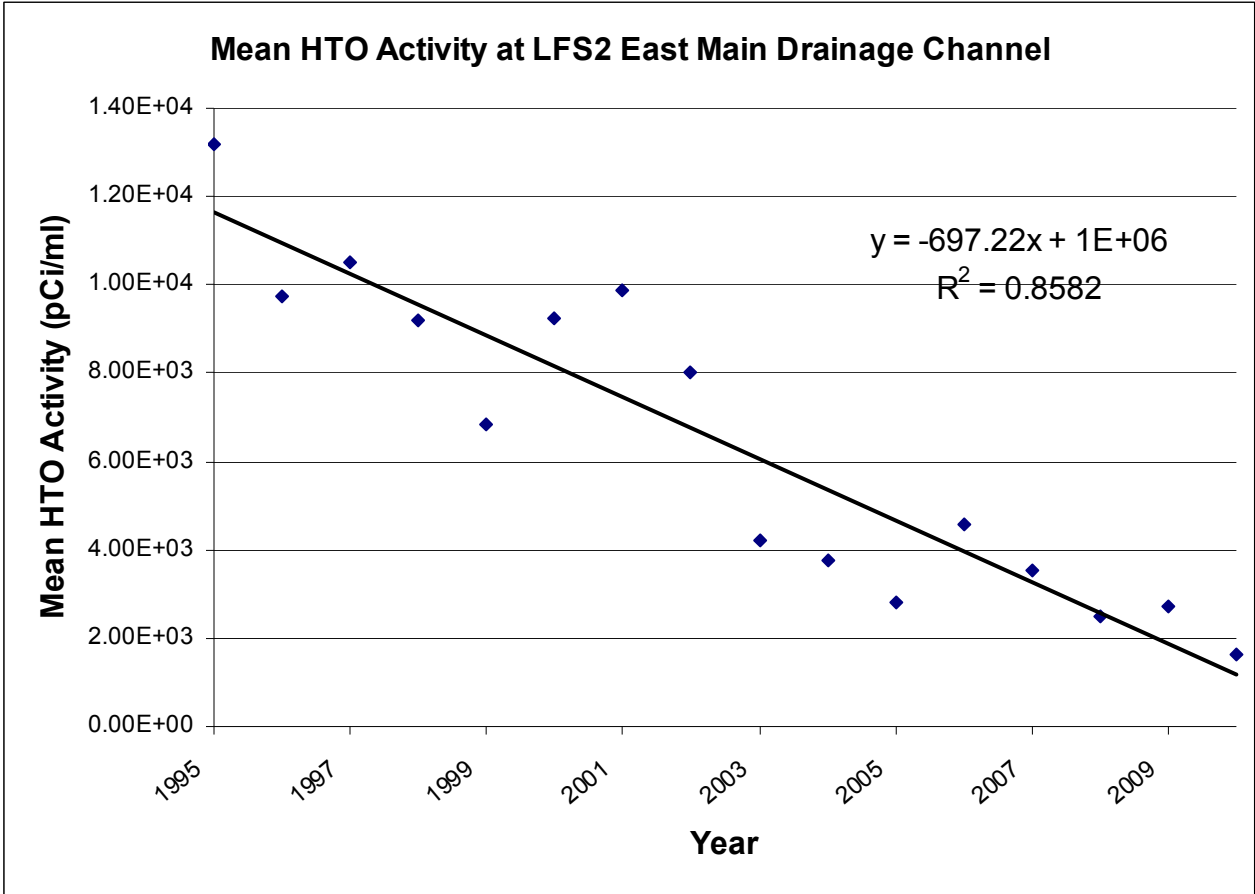
Location 113			East Pond Outlet		
Collection Date	pCi HTO/ml	CU	Collection Date	pCi HTO/ml	CU
1/25/2010	13.4	0.3			
1/25/2010	13.4	0.3			
2/23/2010	65.8	0.6	2/23/2010	1.5	0.1
2/23/2010	65.6	0.6	2/23/2010	1.2	0.1
3/17/2010	238.3	1.1			
3/17/2010	245.5	1.1			
4/7/2010	389.5	1.4	4/7/2010	0.7	0.1
4/7/2010	392.5	1.5	4/7/2010	0.7	0.1
5/20/2010	197.5	1.0			
5/20/2010	192.3	0.9			
6/29/2010	191.1	0.9			
6/29/2010	190.2	1.0			
7/22/2010	6.2	0.2			
7/22/2010	6.2	0.2			
8/11/2010	338.7	1.3			
8/11/2010	341.3	1.3			
10/14/2010	0.9	0.1	10/14/2010	0.4	0.1
10/14/2010	1.1	0.1	10/14/2010	0.4	0.1
11/4/2010	2.0	0.1			
11/4/2010	2.1	0.1			
12/20/2010	4.1	0.2	12/20/2010	0.4	0.1
12/20/2010	4.1	0.2	12/20/2010	0.1	0.1

Strontium-90 (⁹⁰Sr) data for East Main Drain Seeps CY2010.

Strontium-90 Analysis of Water Samples Collected at the Maxey Flats Nuclear Disposal Site on April 17, 2010.

	⁹⁰ Sr	
Location	pCi/liter	CU*
UFS1	-2.6	2.5
LFS2	-2.4	2.6
EMR2	-1.4	2.6

Bold Italics = Reported Values Below MDA; *CU=Counting Uncertainty



Mean tritiated Water (HTO), Total Beta and Alpha Activity^a in
Wash from South Drain of 33L at Maxey Flats Waste Disposal Site and Drip Springs Creek for 2010

Location	pCi HTO/ml	Beta Act. (pCi/l)	Alpha Act. (pCi/l)
NCW114	1.75	3.32	0.65
SCW114	1.68	6.24	2.90
NCW145	1.32	28.5	10.8

a- Total Gross Alpha and Beta Activity is for unfiltered samples. Activity represents contribution for naturally occurring alpha and beta emitters and not necessarily from radioactive waste disposed at MFNDS.

Mean Tritiated Water (HTO), Total Beta and Alpha Activity^a in
Wash 107 at Maxey Flats Waste Disposal Site and Drip Springs Creek for 2010

Location	pCi HTO/ml	Beta Act. (pCi/l)	Alpha Act. (pCi/l)
J107	0.002	4.6	2.2
I107	0.03	27.3	17.3
H107	0.04	2.9	0.6
G107	39.8	4.2	1.1
F107	27.7	3.6	1.0
E107	21.3	3.2	0.7
D107	16.3	14.5	7.48
C107	12.2	3.3	1.5
W7atRd	11.0	4.4	0.9
B107	7.8	3.3	-0.3

a- Total Gross Alpha and Beta Activity is for unfiltered samples. Activity represents contribution for naturally occurring alpha and beta emitters and not necessarily from radioactive waste disposed at MFNDS.

Mean Tritiated Water Activity (HTO) in Wash 107 Before, During, and
After The Initial Remedial Phase of the Maxey Flat Disposal Site
Superfund Action

Year	Locations		
	F107 (pCi/ml)	G107 (pCi/ml)	I107 (pCi/ml)
2010	39.8	27.7	0.03
2009	15.4	28.9	0.2
2008	22.8	28.6	0.1
2007	15.7	18.7	0.1
2006	11.6	14.5	0.1
2005	29.0	28.0	0.2
2004	22.6	24.8	0.1
2003	9.8	10.2	0.5
2002	16.0	20.6	3.9
2001	30.0	19.2	12.7
2000	299.0	82.9	301.0
1999	408.0	331.0	396.0
1998	17.5	14.9	70.8
1997	33.1	13.2	NC
1996	18.6	24.2	10.8
1995	7.0	6.0	2.9

NC = Not collected.

Tritiated Water (HTO), Total Beta and Alpha Activity^a in South Drainage Channel
For 2010 at the Bottom of the Farmers (BF143)

Collection Date	HTO		Beta Activity		Alpha Activity	
	(pCi/ml)	CU	(pCi/l)	CU	(pCi/l)	CU
2/23/2010	0.05	0.1	4.0	3.2	2.0	1.8
2/23/2010	-0.04	0.1				
4/7/2010	0.3	0.1	4.3	1.4	0.6	0.8
4/7/2010	0.1	0.1				
12/20/2010	-0.1	0.1	19.1	3.5	9.9	3.1
12/20/2010	-0.1	0.1				

a- Total Gross Alpha and Beta Activity is for unfiltered samples. Activity represents contribution for naturally occurring alpha and beta emitters and not necessarily from radioactive waste disposed at MFNDS.

Mean tritiated Water (HTO), Beta and Alpha Activity
from Public Water Supply at Hillsboro, Kentucky for 2004

Location	pCi HTO/ml	Beta Activity (pCi/L)	Alpha Activity (pCi/L) West
Fleming Water District	0.04	3.20	0.75

APPENDIX 2. Groundwater Summary Data

Tritiated Water (HTO) Mean Activity for 2010
in U-Wells at Maxey Flats Disposal Site

Location	Mean pCi HTO/ml
UE-2	231000
UK-1	227000
N2B	87400
UF2	179000
UF10a	30500

APPENDIX 3. ISCO Surface-water Data

Data Qualifiers for ISCO Surface-water Data

“=” – Validated Laboratory Result

“U” – Reported Value Below Minimum Detectable Concentration or Error > 50% of Reported Value

“R” – Results Rejected because Relative Percent Difference between duplicate samples is > 15%

CU = Counting Uncertainty

ISCO 102 HTO Activity for 2010

Collection Date	Isotope	Activity	Units	CU	MDA	Code
1/1/2010	HTO	1.632068	pCi/mL	0.147954	0.382589	=
1/1/2010	HTO	1.694193	pCi/mL	0.149037	0.382589	=
1/17/2010	HTO	1.282573	pCi/mL	0.126917	0.325079	=
1/17/2010	HTO	1.479796	pCi/mL	0.130739	0.325079	=
1/18/2010	HTO	0.698394	pCi/mL	0.114852	0.325079	=
1/18/2010	HTO	0.798253	pCi/mL	0.117003	0.325079	=
1/19/2010	HTO	0.740834	pCi/mL	0.115771	0.325079	=
1/19/2010	HTO	0.805743	pCi/mL	0.117162	0.325079	=
1/20/2010	HTO	0.720862	pCi/mL	0.11534	0.325079	=
1/20/2010	HTO	0.745827	pCi/mL	0.115879	0.325079	=
1/21/2010	HTO	0.950539	pCi/mL	0.120208	0.325079	=
1/21/2010	HTO	1.172727	pCi/mL	0.124737	0.325079	=
1/22/2010	HTO	0.813232	pCi/mL	0.117322	0.325079	=
1/22/2010	HTO	0.94305	pCi/mL	0.120052	0.325079	=
1/23/2010	HTO	0.791562	pCi/mL	0.120654	0.337966	=
1/23/2010	HTO	0.801842	pCi/mL	0.120872	0.337966	=
1/24/2010	HTO	0.598534	pCi/mL	0.112661	0.325079	=
1/24/2010	HTO	0.655953	pCi/mL	0.113926	0.325079	=
1/25/2010	HTO	0.385501	pCi/mL	0.11167	0.337966	=
1/25/2010	HTO	0.673342	pCi/mL	0.118109	0.337966	=
1/26/2010	HTO	0.675925	pCi/mL	0.114363	0.325079	=
1/26/2010	HTO	0.730848	pCi/mL	0.115556	0.325079	=
1/27/2010	HTO	0.730848	pCi/mL	0.115556	0.325079	=
1/27/2010	HTO	0.735841	pCi/mL	0.115663	0.325079	=
1/28/2010	HTO	0.518646	pCi/mL	0.110876	0.325079	=
1/28/2010	HTO	0.683415	pCi/mL	0.114526	0.325079	=
1/29/2010	HTO	0.833204	pCi/mL	0.117746	0.325079	=
1/29/2010	HTO	0.860666	pCi/mL	0.118327	0.325079	=
1/30/2010	HTO	0.675925	pCi/mL	0.114363	0.325079	=
1/30/2010	HTO	0.693401	pCi/mL	0.114744	0.325079	=
2/1/2010	HTO	1.160245	pCi/mL	0.124487	0.325079	=
2/1/2010	HTO	1.344985	pCi/mL	0.128138	0.325079	=
2/2/2010	HTO	1.072868	pCi/mL	0.122722	0.325079	=
2/2/2010	HTO	1.112811	pCi/mL	0.123532	0.325079	=
2/24/2010	HTO	0.841466	pCi/mL	0.135585	0.389681	=
2/24/2010	HTO	1.099973	pCi/mL	0.140525	0.389681	=
2/25/2010	HTO	1.231864	pCi/mL	0.142979	0.389681	=
2/25/2010	HTO	1.23714	pCi/mL	0.143076	0.389681	=
2/26/2010	HTO	1.158935	pCi/mL	0.123374	0.315673	=
2/26/2010	HTO	1.179888	pCi/mL	0.123818	0.315673	=
2/27/2010	HTO	0.762331	pCi/mL	0.134037	0.389681	=
2/27/2010	HTO	0.791348	pCi/mL	0.134607	0.389681	=
2/28/2010	HTO	1.122268	pCi/mL	0.122593	0.315673	=
2/28/2010	HTO	1.143221	pCi/mL	0.12304	0.315673	=
3/1/2010	HTO	1.107887	pCi/mL	0.140673	0.389681	=
3/1/2010	HTO	1.44289	pCi/mL	0.146821	0.389681	=
3/2/2010	HTO	1.184383	pCi/mL	0.1421	0.389681	=
3/2/2010	HTO	1.392772	pCi/mL	0.145917	0.389681	=
3/3/2010	HTO	0.991822	pCi/mL	0.13848	0.389681	=
3/3/2010	HTO	1.086784	pCi/mL	0.140277	0.389681	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
3/4/2010	HTO	2.735425	pCi/mL	0.168449	0.389681	=
3/4/2010	HTO	3.007121	pCi/mL	0.172652	0.389681	=
3/5/2010	HTO	0.836191	pCi/mL	0.135483	0.389681	=
3/5/2010	HTO	0.854655	pCi/mL	0.135842	0.389681	=
3/6/2010	HTO	0.939066	pCi/mL	0.137471	0.389681	=
3/6/2010	HTO	1.113162	pCi/mL	0.140772	0.389681	=
3/7/2010	HTO	0.815088	pCi/mL	0.135071	0.389681	=
3/7/2010	HTO	0.833553	pCi/mL	0.135431	0.389681	=
3/8/2010	HTO	0.78871	pCi/mL	0.134555	0.389681	=
3/8/2010	HTO	0.801899	pCi/mL	0.134813	0.389681	=
3/9/2010	HTO	0.762331	pCi/mL	0.134037	0.389681	=
3/9/2010	HTO	0.907412	pCi/mL	0.136862	0.389681	=
3/10/2010	HTO	0.820364	pCi/mL	0.135174	0.389681	=
3/10/2010	HTO	1.047217	pCi/mL	0.139531	0.389681	=
3/11/2010	HTO	2.186757	pCi/mL	0.159627	0.389681	=
3/11/2010	HTO	2.244789	pCi/mL	0.160583	0.389681	=
3/12/2010	HTO	1.366393	pCi/mL	0.14544	0.389681	=
3/12/2010	HTO	1.500923	pCi/mL	0.147859	0.389681	=
3/13/2010	HTO	0.907412	pCi/mL	0.136862	0.389681	=
3/13/2010	HTO	1.020838	pCi/mL	0.139031	0.389681	=
3/14/2010	HTO	1.258243	pCi/mL	0.143465	0.389681	=
3/14/2010	HTO	1.300448	pCi/mL	0.144239	0.389681	=
3/15/2010	HTO	1.070957	pCi/mL	0.139979	0.389681	=
3/15/2010	HTO	1.089422	pCi/mL	0.140326	0.389681	=
3/16/2010	HTO	0.878396	pCi/mL	0.136302	0.389681	=
3/16/2010	HTO	0.891585	pCi/mL	0.136557	0.389681	=
3/17/2010	HTO	0.999736	pCi/mL	0.13863	0.389681	=
3/17/2010	HTO	1.007649	pCi/mL	0.138781	0.389681	=
3/18/2010	HTO	0.961234	pCi/mL	0.124184	0.339174	=
3/18/2010	HTO	0.971342	pCi/mL	0.124389	0.339174	=
3/19/2010	HTO	0.829835	pCi/mL	0.121481	0.339174	=
3/19/2010	HTO	0.895534	pCi/mL	0.12284	0.339174	=
3/20/2010	HTO	0.775371	pCi/mL	0.116131	0.324698	=
3/20/2010	HTO	0.956945	pCi/mL	0.119906	0.324698	=
3/21/2010	HTO	0.814674	pCi/mL	0.121165	0.339174	=
3/21/2010	HTO	0.839943	pCi/mL	0.121691	0.339174	=
3/22/2010	HTO	1.587906	pCi/mL	0.13634	0.339174	=
3/22/2010	HTO	1.785004	pCi/mL	0.139946	0.339174	=
3/23/2010	HTO	1.572744	pCi/mL	0.136059	0.339174	=
3/23/2010	HTO	1.815327	pCi/mL	0.140492	0.339174	=
3/24/2010	HTO	1.244247	pCi/mL	0.129815	0.339174	=
3/24/2010	HTO	1.294785	pCi/mL	0.130795	0.339174	=
3/25/2010	HTO	0.976395	pCi/mL	0.124492	0.339174	=
3/25/2010	HTO	1.072418	pCi/mL	0.126426	0.339174	=
3/26/2010	HTO	1.177779	pCi/mL	0.124343	0.324698	=
3/26/2010	HTO	1.27102	pCi/mL	0.126169	0.324698	=
3/27/2010	HTO	1.344631	pCi/mL	0.127593	0.324698	=
3/27/2010	HTO	1.472224	pCi/mL	0.130023	0.324698	=
3/28/2010	HTO	1.055094	pCi/mL	0.121898	0.324698	=
3/28/2010	HTO	1.123797	pCi/mL	0.123273	0.324698	=
3/29/2010	HTO	2.224685	pCi/mL	0.147671	0.339174	=
3/29/2010	HTO	2.300492	pCi/mL	0.148963	0.339174	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
3/30/2010	HTO	1.042095	pCi/mL	0.125818	0.339174	=
3/30/2010	HTO	1.143171	pCi/mL	0.127832	0.339174	=
3/31/2010	HTO	0.920803	pCi/mL	0.123358	0.339174	=
3/31/2010	HTO	1.133063	pCi/mL	0.127632	0.339174	=
4/1/2010	HTO	1.158332	pCi/mL	0.128132	0.339174	=
4/1/2010	HTO	1.213924	pCi/mL	0.129223	0.339174	=
4/2/2010	HTO	0.986503	pCi/mL	0.124697	0.339174	=
4/2/2010	HTO	1.037041	pCi/mL	0.125717	0.339174	=
4/3/2010	HTO	0.794458	pCi/mL	0.120743	0.339174	=
4/3/2010	HTO	0.91575	pCi/mL	0.123255	0.339174	=
4/4/2010	HTO	0.905642	pCi/mL	0.123047	0.339174	=
4/4/2010	HTO	1.047149	pCi/mL	0.12592	0.339174	=
4/5/2010	HTO	0.723705	pCi/mL	0.119253	0.339174	=
4/5/2010	HTO	0.900588	pCi/mL	0.122944	0.339174	=
4/6/2010	HTO	0.941019	pCi/mL	0.123772	0.339174	=
4/6/2010	HTO	0.981449	pCi/mL	0.124595	0.339174	=
4/7/2010	HTO	2.381353	pCi/mL	0.150328	0.339174	=
4/7/2010	HTO	2.558237	pCi/mL	0.153273	0.339174	=
4/8/2010	HTO	0.947057	pCi/mL	0.141501	0.402343	=
4/8/2010	HTO	1.091376	pCi/mL	0.144252	0.402343	=
4/9/2010	HTO	1.527055	pCi/mL	0.152254	0.402343	=
4/9/2010	HTO	1.845646	pCi/mL	0.157849	0.402343	=
4/10/2010	HTO	2.13156	pCi/mL	0.162707	0.402343	=
4/10/2010	HTO	2.232311	pCi/mL	0.164384	0.402343	=
4/11/2010	HTO	1.104991	pCi/mL	0.144509	0.402343	=
4/11/2010	HTO	1.238418	pCi/mL	0.147001	0.402343	=
4/12/2010	HTO	0.943578	pCi/mL	0.143986	0.409842	=
4/12/2010	HTO	1.02514	pCi/mL	0.14557	0.409842	=
4/13/2010	HTO	0.661143	pCi/mL	0.135888	0.402343	=
4/13/2010	HTO	0.829969	pCi/mL	0.13923	0.402343	=
4/14/2010	HTO	0.650251	pCi/mL	0.13567	0.402343	=
4/14/2010	HTO	0.846307	pCi/mL	0.139549	0.402343	=
4/15/2010	HTO	0.666589	pCi/mL	0.135997	0.402343	=
4/15/2010	HTO	0.816354	pCi/mL	0.138963	0.402343	=
4/16/2010	HTO	0.595791	pCi/mL	0.134572	0.402343	=
4/16/2010	HTO	0.843584	pCi/mL	0.139496	0.402343	=
4/17/2010	HTO	0.473256	pCi/mL	0.132069	0.402343	=
4/17/2010	HTO	0.726495	pCi/mL	0.137191	0.402343	=
4/18/2010	HTO	1.889214	pCi/mL	0.158599	0.402343	=
4/18/2010	HTO	2.229588	pCi/mL	0.164339	0.402343	=
4/24/2010	HTO	1.871688	pCi/mL	0.161097	0.409842	=
4/24/2010	HTO	1.944812	pCi/mL	0.162369	0.409842	=
4/25/2010	HTO	1.461703	pCi/mL	0.151081	0.402343	=
4/25/2010	HTO	1.494379	pCi/mL	0.151669	0.402343	=
4/26/2010	HTO	1.516163	pCi/mL	0.152059	0.402343	=
4/26/2010	HTO	1.559731	pCi/mL	0.152837	0.402343	=
4/27/2010	HTO	1.371845	pCi/mL	0.149452	0.402343	=
4/27/2010	HTO	1.627806	pCi/mL	0.154045	0.402343	=
4/28/2010	HTO	1.366399	pCi/mL	0.149353	0.402343	=
4/28/2010	HTO	1.401798	pCi/mL	0.149997	0.402343	=
4/29/2010	HTO	1.00424	pCi/mL	0.142598	0.402343	=
4/29/2010	HTO	1.020578	pCi/mL	0.142909	0.402343	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
4/30/2010	HTO	0.92899	pCi/mL	0.118873	0.320488	=
4/30/2010	HTO	0.984629	pCi/mL	0.12005	0.320488	=
5/1/2010	HTO	0.873352	pCi/mL	0.117683	0.320488	=
5/1/2010	HTO	0.999803	pCi/mL	0.12037	0.320488	=
5/2/2010	HTO	0.726669	pCi/mL	0.114487	0.320488	=
5/2/2010	HTO	0.746901	pCi/mL	0.114933	0.320488	=
5/3/2010	HTO	0.377666	pCi/mL	0.106499	0.320488	=
5/3/2010	HTO	0.41813	pCi/mL	0.107456	0.320488	=
5/4/2010	HTO	0.615393	pCi/mL	0.112002	0.320488	=
5/4/2010	HTO	0.676089	pCi/mL	0.113364	0.320488	=
5/5/2010	HTO	0.534464	pCi/mL	0.11016	0.320488	=
5/5/2010	HTO	0.671031	pCi/mL	0.113252	0.320488	=
5/6/2010	HTO	0.600219	pCi/mL	0.111659	0.320488	=
5/6/2010	HTO	0.691263	pCi/mL	0.113702	0.320488	=
5/7/2010	HTO	0.711495	pCi/mL	0.114152	0.320488	=
5/7/2010	HTO	0.746901	pCi/mL	0.114933	0.320488	=
5/8/2010	HTO	0.9037	pCi/mL	0.118333	0.320488	=
5/8/2010	HTO	0.959338	pCi/mL	0.119516	0.320488	=
5/9/2010	HTO	1.3134	pCi/mL	0.126787	0.320488	=
5/9/2010	HTO	1.399386	pCi/mL	0.128491	0.320488	=
5/10/2010	HTO	1.119083	pCi/mL	0.119284	0.306256	=
5/10/2010	HTO	1.144175	pCi/mL	0.119811	0.306256	=
5/11/2010	HTO	0.82783	pCi/mL	0.1167	0.320488	=
5/11/2010	HTO	0.863236	pCi/mL	0.117465	0.320488	=
5/12/2010	HTO	0.77282	pCi/mL	0.111763	0.306256	=
5/12/2010	HTO	0.828021	pCi/mL	0.112996	0.306256	=
5/13/2010	HTO	0.77725	pCi/mL	0.115599	0.320488	=
5/14/2010	HTO	0.701379	pCi/mL	0.113927	0.320488	=
5/14/2010	HTO	0.731727	pCi/mL	0.114599	0.320488	=
5/15/2010	HTO	1.106021	pCi/mL	0.122581	0.320488	=
5/15/2010	HTO	1.186949	pCi/mL	0.124239	0.320488	=
5/16/2010	HTO	0.969454	pCi/mL	0.11973	0.320488	=
5/16/2010	HTO	1.090847	pCi/mL	0.122268	0.320488	=
5/17/2010	HTO	0.595161	pCi/mL	0.111544	0.320488	=
5/17/2010	HTO	0.630567	pCi/mL	0.112344	0.320488	=
5/18/2010	HTO	0.569871	pCi/mL	0.11097	0.320488	=
5/18/2010	HTO	0.741843	pCi/mL	0.114822	0.320488	=
5/19/2010	HTO	0.873352	pCi/mL	0.117683	0.320488	=
5/19/2010	HTO	0.944164	pCi/mL	0.119195	0.320488	=
5/20/2010	HTO	0.645741	pCi/mL	0.112685	0.320488	=
5/20/2010	HTO	0.772192	pCi/mL	0.115488	0.320488	=
5/21/2010	HTO	1.065058	pCi/mL	0.128978	0.343468	=
5/21/2010	HTO	1.103193	pCi/mL	0.12978	0.343468	=
5/22/2010	HTO	0.903941	pCi/mL	0.148128	0.424967	=
5/22/2010	HTO	0.972107	pCi/mL	0.149485	0.424967	=
5/23/2010	HTO	0.87983	pCi/mL	0.125004	0.343468	=
5/23/2010	HTO	0.885278	pCi/mL	0.125123	0.343468	=
5/24/2010	HTO	0.858039	pCi/mL	0.124529	0.343468	=
5/24/2010	HTO	1.054162	pCi/mL	0.128747	0.343468	=
5/25/2010	HTO	0.847143	pCi/mL	0.12429	0.343468	=
5/25/2010	HTO	0.917965	pCi/mL	0.125833	0.343468	=
5/26/2010	HTO	0.87983	pCi/mL	0.125004	0.343468	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
5/27/2010	HTO	0.623781	pCi/mL	0.119295	0.343468	=
5/27/2010	HTO	0.661916	pCi/mL	0.120162	0.343468	=
5/28/2010	HTO	0.759977	pCi/mL	0.122365	0.343468	=
5/28/2010	HTO	0.901622	pCi/mL	0.125478	0.343468	=
5/29/2010	HTO	0.623781	pCi/mL	0.119295	0.343468	=
5/29/2010	HTO	0.836247	pCi/mL	0.124051	0.343468	=
5/30/2010	HTO	0.552958	pCi/mL	0.117666	0.343468	=
5/30/2010	HTO	0.661916	pCi/mL	0.120162	0.343468	=
5/31/2010	HTO	0.384918	pCi/mL	0.117803	0.357173	=
5/31/2010	HTO	0.570353	pCi/mL	0.122146	0.357173	=
6/1/2010	HTO	1.13588	pCi/mL	0.130465	0.343468	=
6/1/2010	HTO	1.293868	pCi/mL	0.133723	0.343468	=
6/2/2010	HTO	1.05961	pCi/mL	0.128862	0.343468	=
6/2/2010	HTO	1.168567	pCi/mL	0.131145	0.343468	=
6/3/2010	HTO	1.043266	pCi/mL	0.128517	0.343468	=
6/3/2010	HTO	1.190359	pCi/mL	0.131597	0.343468	=
6/4/2010	HTO	0.754529	pCi/mL	0.122244	0.343468	=
6/4/2010	HTO	0.934309	pCi/mL	0.126186	0.343468	=
6/5/2010	HTO	0.885278	pCi/mL	0.125123	0.343468	=
6/5/2010	HTO	0.961548	pCi/mL	0.126773	0.343468	=
6/6/2010	HTO	0.939757	pCi/mL	0.126304	0.343468	=
6/6/2010	HTO	0.945205	pCi/mL	0.126421	0.343468	=
6/7/2010	HTO	1.419169	pCi/mL	0.136251	0.343468	=
6/7/2010	HTO	1.549918	pCi/mL	0.13884	0.343468	=
6/8/2010	HTO	1.451856	pCi/mL	0.136903	0.343468	=
6/8/2010	HTO	1.658875	pCi/mL	0.140962	0.343468	=
6/9/2010	HTO	1.381034	pCi/mL	0.135487	0.343468	=
6/9/2010	HTO	1.571709	pCi/mL	0.139267	0.343468	=
6/10/2010	HTO	1.353795	pCi/mL	0.134938	0.343468	=
6/10/2010	HTO	1.500887	pCi/mL	0.137875	0.343468	=
6/11/2010	HTO	1.010579	pCi/mL	0.127822	0.343468	=
6/11/2010	HTO	1.141328	pCi/mL	0.130578	0.343468	=
6/12/2010	HTO	0.943483	pCi/mL	0.125167	0.346303	=
6/12/2010	HTO	1.047081	pCi/mL	0.127193	0.346303	=
6/13/2010	HTO	0.655551	pCi/mL	0.117734	0.339845	=
6/13/2010	HTO	0.667967	pCi/mL	0.117995	0.339845	=
6/14/2010	HTO	0.583787	pCi/mL	0.115996	0.339159	=
6/14/2010	HTO	0.620945	pCi/mL	0.116787	0.339159	=
6/15/2010	HTO	0.459928	pCi/mL	0.11332	0.339159	=
6/15/2010	HTO	0.46736	pCi/mL	0.113482	0.339159	=
6/16/2010	HTO	0.423025	pCi/mL	0.114452	0.346303	=
6/16/2010	HTO	0.548823	pCi/mL	0.117132	0.346303	=
6/17/2010	HTO	0.351493	pCi/mL	0.1129	0.346303	=
6/17/2010	HTO	0.356427	pCi/mL	0.113008	0.346303	=
6/18/2010	HTO	0.247895	pCi/mL	0.110614	0.346303	U
6/18/2010	HTO	0.252829	pCi/mL	0.110724	0.346303	U
6/19/2010	HTO	0.228162	pCi/mL	0.110173	0.346303	U
6/19/2010	HTO	0.235562	pCi/mL	0.110338	0.346303	U
6/20/2010	HTO	0.075232	pCi/mL	0.106694	0.346303	U
6/20/2010	HTO	0.316961	pCi/mL	0.112143	0.346303	U
6/21/2010	HTO	0.228162	pCi/mL	0.110173	0.346303	U
6/21/2010	HTO	0.403293	pCi/mL	0.114026	0.346303	=
6/22/2010	HTO	0.430202	pCi/mL	0.112668	0.339159	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
6/22/2010	HTO	0.472314	pCi/mL	0.11359	0.339159	=
6/23/2010	HTO	0.310394	pCi/mL	0.110214	0.339845	U
6/23/2010	HTO	0.317843	pCi/mL	0.110381	0.339845	U
6/24/2010	HTO	0.214688	pCi/mL	0.107826	0.339159	U
6/24/2010	HTO	0.365796	pCi/mL	0.111243	0.339159	=
6/25/2010	HTO	0.173897	pCi/mL	0.108951	0.346303	U
6/25/2010	HTO	0.223229	pCi/mL	0.110062	0.346303	U
6/26/2010	HTO	0.067832	pCi/mL	0.106523	0.346303	U
6/26/2010	HTO	0.188697	pCi/mL	0.109286	0.346303	U
6/27/2010	HTO	0.060432	pCi/mL	0.106351	0.346303	U
6/27/2010	HTO	0.151697	pCi/mL	0.108447	0.346303	U
6/28/2010	HTO	0.09083	pCi/mL	0.104942	0.339159	U
6/28/2010	HTO	0.140373	pCi/mL	0.106105	0.339159	U
6/29/2010	HTO	0.122098	pCi/mL	0.107772	0.346303	U
6/29/2010	HTO	0.18623	pCi/mL	0.10923	0.346303	U
6/30/2010	HTO	0.245429	pCi/mL	0.110559	0.346303	U
6/30/2010	HTO	0.279961	pCi/mL	0.111326	0.346303	U
7/1/2010	HTO	0.608022	pCi/mL	0.118372	0.346303	=
7/1/2010	HTO	0.746153	pCi/mL	0.121216	0.346303	=
7/2/2010	HTO	0.846367	pCi/mL	0.121474	0.339159	=
7/2/2010	HTO	0.928114	pCi/mL	0.12313	0.339159	=
7/3/2010	HTO	0.737749	pCi/mL	0.118775	0.337168	=
7/3/2010	HTO	0.89686	pCi/mL	0.12206	0.337168	=
7/4/2010	HTO	0.693	pCi/mL	0.117834	0.337168	=
7/4/2010	HTO	0.712888	pCi/mL	0.118253	0.337168	=
7/5/2010	HTO	4.451979	pCi/mL	0.180486	0.337168	=
7/5/2010	HTO	4.521589	pCi/mL	0.181443	0.337168	=
7/6/2010	HTO	0.55875	pCi/mL	0.114967	0.337168	=
7/6/2010	HTO	0.593556	pCi/mL	0.115717	0.337168	=
7/7/2010	HTO	0.509028	pCi/mL	0.113887	0.337168	=
7/7/2010	HTO	0.586097	pCi/mL	0.115557	0.337168	=
7/8/2010	HTO	0.623389	pCi/mL	0.116356	0.337168	=
7/8/2010	HTO	0.710402	pCi/mL	0.118201	0.337168	=
7/9/2010	HTO	0.339974	pCi/mL	0.110134	0.337168	=
7/9/2010	HTO	0.615931	pCi/mL	0.116197	0.337168	=
7/10/2010	HTO	0.38721	pCi/mL	0.111196	0.337168	=
7/10/2010	HTO	0.511515	pCi/mL	0.113941	0.337168	=
7/11/2010	HTO	0.638305	pCi/mL	0.116675	0.337168	=
7/11/2010	HTO	0.702944	pCi/mL	0.118044	0.337168	=
7/12/2010	HTO	0.633333	pCi/mL	0.116569	0.337168	=
7/12/2010	HTO	0.70543	pCi/mL	0.118096	0.337168	=
7/13/2010	HTO	0.505174	pCi/mL	0.113638	0.336425	=
7/13/2010	HTO	0.565047	pCi/mL	0.114945	0.336425	=
7/14/2010	HTO	0.576153	pCi/mL	0.115343	0.337168	=
7/14/2010	HTO	0.683055	pCi/mL	0.117624	0.337168	=
7/15/2010	HTO	0.209618	pCi/mL	0.10469	0.328575	U
7/15/2010	HTO	0.431713	pCi/mL	0.109857	0.328575	=
7/16/2010	HTO	0.218285	pCi/mL	0.107155	0.336425	U
7/16/2010	HTO	0.245727	pCi/mL	0.107792	0.336425	U
7/17/2010	HTO	0.280307	pCi/mL	0.108779	0.337168	U
7/17/2010	HTO	0.320085	pCi/mL	0.109685	0.337168	U
7/18/2010	HTO	0.128476	pCi/mL	0.105044	0.336425	U

Collection Date	Isotope	Activity	Units	CU	MDA	Code
7/18/2010	HTO	0.260695	pCi/mL	0.108138	0.336425	U
7/19/2010	HTO	0.146058	pCi/mL	0.105666	0.337168	U
7/19/2010	HTO	0.404612	pCi/mL	0.111584	0.337168	=
7/20/2010	HTO	0.073961	pCi/mL	0.103956	0.337168	U
7/20/2010	HTO	0.28528	pCi/mL	0.108893	0.337168	U
7/21/2010	HTO	0.223127	pCi/mL	0.107464	0.337168	U
7/21/2010	HTO	0.404612	pCi/mL	0.111584	0.337168	=
7/22/2010	HTO	0.292738	pCi/mL	0.109063	0.337168	U
7/22/2010	HTO	0.357376	pCi/mL	0.110527	0.337168	=
7/23/2010	HTO	0.238943	pCi/mL	0.101921	0.317996	U
7/23/2010	HTO	0.271233	pCi/mL	0.102649	0.317996	U
7/24/2010	HTO	0.165139	pCi/mL	0.100237	0.317996	U
7/24/2010	HTO	0.264314	pCi/mL	0.102494	0.317996	U
7/25/2010	HTO	0.361183	pCi/mL	0.104651	0.317996	=
7/25/2010	HTO	0.365796	pCi/mL	0.104752	0.317996	=
7/26/2010	HTO	0.148994	pCi/mL	0.099865	0.317996	U
7/26/2010	HTO	0.169751	pCi/mL	0.100343	0.317996	U
7/27/2010	HTO	0.06135	pCi/mL	0.09782	0.317996	U
7/27/2010	HTO	0.190509	pCi/mL	0.100819	0.317996	U
7/28/2010	HTO	0.120956	pCi/mL	0.097268	0.3111	U
7/28/2010	HTO	0.343895	pCi/mL	0.10256	0.3111	=
7/29/2010	HTO	0.098253	pCi/mL	0.098686	0.317996	U
7/29/2010	HTO	0.285072	pCi/mL	0.10296	0.317996	U
7/30/2010	HTO	0.11901	pCi/mL	0.09917	0.317996	U
7/30/2010	HTO	0.268927	pCi/mL	0.102597	0.317996	U
7/31/2010	HTO	0.218186	pCi/mL	0.10145	0.317996	U
7/31/2010	HTO	0.347344	pCi/mL	0.104345	0.317996	=
8/1/2010	HTO	0.077495	pCi/mL	0.0982	0.317996	U
8/1/2010	HTO	0.236637	pCi/mL	0.101869	0.317996	U
8/2/2010	HTO	0.112091	pCi/mL	0.099009	0.317996	U
8/2/2010	HTO	0.176671	pCi/mL	0.100502	0.317996	U
8/3/2010	HTO	0.324921	pCi/mL	0.10212	0.3111	=
8/3/2010	HTO	0.452992	pCi/mL	0.105053	0.3111	=
8/4/2010	HTO	0.328893	pCi/mL	0.103937	0.317996	=
8/4/2010	HTO	0.405005	pCi/mL	0.105612	0.317996	=
8/5/2010	HTO	3.804644	pCi/mL	0.163816	0.317996	=
8/5/2010	HTO	3.883062	pCi/mL	0.164917	0.317996	=
8/6/2010	HTO	0.310442	pCi/mL	0.103526	0.317996	U
8/6/2010	HTO	0.444213	pCi/mL	0.106465	0.317996	=
8/7/2010	HTO	0.718675	pCi/mL	0.112253	0.317996	=
8/7/2010	HTO	0.741739	pCi/mL	0.112726	0.317996	=
8/8/2010	HTO	0.775542	pCi/mL	0.112098	0.3111	=
8/8/2010	HTO	0.884639	pCi/mL	0.114383	0.3111	=
8/9/2010	HTO	0.464971	pCi/mL	0.106914	0.317996	=
8/9/2010	HTO	0.661015	pCi/mL	0.111062	0.317996	=
8/10/2010	HTO	0.607968	pCi/mL	0.109955	0.317996	=
8/10/2010	HTO	0.633339	pCi/mL	0.110486	0.317996	=
8/11/2010	HTO	0.568759	pCi/mL	0.10913	0.317996	=
8/11/2010	HTO	0.605662	pCi/mL	0.109907	0.317996	=
8/12/2010	HTO	0.755578	pCi/mL	0.113009	0.317996	=
8/12/2010	HTO	0.863979	pCi/mL	0.1152	0.317996	=
8/13/2010	HTO	1.016525	pCi/mL	0.11751	0.31103	=
8/13/2010	HTO	1.147345	pCi/mL	0.120177	0.31103	=
8/14/2010	HTO	1.113429	pCi/mL	0.119491	0.31103	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
8/15/2010	HTO	0.808181	pCi/mL	0.113133	0.31103	=
8/15/2010	HTO	0.968073	pCi/mL	0.116507	0.31103	=
8/16/2010	HTO	0.653134	pCi/mL	0.109763	0.31103	=
8/16/2010	HTO	0.696741	pCi/mL	0.110721	0.31103	=
8/17/2010	HTO	0.483552	pCi/mL	0.105954	0.31103	=
8/17/2010	HTO	0.532004	pCi/mL	0.107056	0.31103	=
8/18/2010	HTO	0.580456	pCi/mL	0.108147	0.31103	=
8/18/2010	HTO	0.745193	pCi/mL	0.111776	0.31103	=
8/19/2010	HTO	0.459326	pCi/mL	0.105399	0.31103	=
8/19/2010	HTO	0.551385	pCi/mL	0.107494	0.31103	=
8/20/2010	HTO	0.450623	pCi/mL	0.103263	0.304299	=
8/20/2010	HTO	0.479387	pCi/mL	0.103929	0.304299	=
8/21/2010	HTO	0.425409	pCi/mL	0.104616	0.31103	=
8/21/2010	HTO	0.532004	pCi/mL	0.107056	0.31103	=
8/22/2010	HTO	0.396338	pCi/mL	0.103941	0.31103	=
8/22/2010	HTO	0.498087	pCi/mL	0.106286	0.31103	=
8/23/2010	HTO	0.352731	pCi/mL	0.102919	0.31103	=
8/23/2010	HTO	0.386648	pCi/mL	0.103715	0.31103	=
8/24/2010	HTO	0.352731	pCi/mL	0.102919	0.31103	=
8/24/2010	HTO	0.498087	pCi/mL	0.106286	0.31103	=
8/25/2010	HTO	0.309124	pCi/mL	0.101888	0.31103	U
8/25/2010	HTO	0.507778	pCi/mL	0.106506	0.31103	=
8/26/2010	HTO	0.33335	pCi/mL	0.102462	0.31103	=
8/26/2010	HTO	0.381802	pCi/mL	0.103601	0.31103	=
8/27/2010	HTO	0.682205	pCi/mL	0.110403	0.31103	=
8/27/2010	HTO	0.769419	pCi/mL	0.1123	0.31103	=
8/28/2010	HTO	0.604682	pCi/mL	0.108688	0.31103	=
8/28/2010	HTO	0.696741	pCi/mL	0.110721	0.31103	=
8/29/2010	HTO	0.483552	pCi/mL	0.105954	0.31103	=
8/29/2010	HTO	0.551385	pCi/mL	0.107494	0.31103	=
8/30/2010	HTO	0.376957	pCi/mL	0.103488	0.31103	=
8/30/2010	HTO	0.55623	pCi/mL	0.107603	0.31103	=
8/31/2010	HTO	0.483552	pCi/mL	0.105954	0.31103	=
8/31/2010	HTO	0.532004	pCi/mL	0.107056	0.31103	=
9/1/2010	HTO	0.594992	pCi/mL	0.108472	0.31103	=
9/1/2010	HTO	0.750038	pCi/mL	0.111881	0.31103	=
9/2/2010	HTO	0.582474	pCi/mL	0.109606	0.315946	=
9/2/2010	HTO	0.748662	pCi/mL	0.113251	0.315946	=
9/3/2010	HTO	0.63624	pCi/mL	0.110798	0.315946	=
9/3/2010	HTO	0.665568	pCi/mL	0.111443	0.315946	=
9/4/2010	HTO	0.905074	pCi/mL	0.116577	0.315946	=
9/4/2010	HTO	0.988169	pCi/mL	0.118306	0.315946	=
9/5/2010	HTO	1.061487	pCi/mL	0.119812	0.315946	=
9/5/2010	HTO	1.178796	pCi/mL	0.122181	0.315946	=
9/6/2010	HTO	0.646802	pCi/mL	0.112847	0.323344	=
9/6/2010	HTO	0.743701	pCi/mL	0.114908	0.323344	=
9/7/2010	HTO	0.851308	pCi/mL	0.115445	0.315946	=
9/7/2010	HTO	0.93929	pCi/mL	0.117292	0.315946	=
9/8/2010	HTO	0.738886	pCi/mL	0.11304	0.315946	=
9/8/2010	HTO	0.905074	pCi/mL	0.116577	0.315946	=
9/9/2010	HTO	0.763326	pCi/mL	0.113567	0.315946	=
9/9/2010	HTO	0.782877	pCi/mL	0.113987	0.315946	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
9/10/2010	HTO	0.787765	pCi/mL	0.114092	0.315946	=
9/10/2010	HTO	0.909962	pCi/mL	0.11668	0.315946	=
9/11/2010	HTO	0.84642	pCi/mL	0.115341	0.315946	=
9/11/2010	HTO	0.953953	pCi/mL	0.117598	0.315946	=
9/12/2010	HTO	0.743774	pCi/mL	0.113145	0.315946	=
9/12/2010	HTO	0.773101	pCi/mL	0.113777	0.315946	=
9/13/2010	HTO	0.597137	pCi/mL	0.109932	0.315946	=
9/13/2010	HTO	0.72911	pCi/mL	0.112828	0.315946	=
9/14/2010	HTO	0.685119	pCi/mL	0.111871	0.315946	=
9/14/2010	HTO	0.733998	pCi/mL	0.112934	0.315946	=
9/15/2010	HTO	0.690007	pCi/mL	0.111978	0.315946	=
9/15/2010	HTO	0.694895	pCi/mL	0.112084	0.315946	=
9/16/2010	HTO	0.738886	pCi/mL	0.11304	0.315946	=
9/16/2010	HTO	0.890411	pCi/mL	0.116269	0.315946	=
9/17/2010	HTO	0.758438	pCi/mL	0.113462	0.315946	=
9/17/2010	HTO	0.792653	pCi/mL	0.114196	0.315946	=
9/18/2010	HTO	0.787765	pCi/mL	0.114092	0.315946	=
9/18/2010	HTO	0.870859	pCi/mL	0.115858	0.315946	=
9/19/2010	HTO	0.680231	pCi/mL	0.111764	0.315946	=
9/19/2010	HTO	0.733998	pCi/mL	0.112934	0.315946	=
9/20/2010	HTO	0.797541	pCi/mL	0.114301	0.315946	=
9/20/2010	HTO	0.944178	pCi/mL	0.117394	0.315946	=
9/21/2010	HTO	0.724222	pCi/mL	0.112722	0.315946	=
9/21/2010	HTO	0.900187	pCi/mL	0.116475	0.315946	=
9/22/2010	HTO	0.773101	pCi/mL	0.113777	0.315946	=
9/22/2010	HTO	0.851308	pCi/mL	0.115445	0.315946	=
9/23/2010	HTO	0.773101	pCi/mL	0.113777	0.315946	=
9/23/2010	HTO	0.841532	pCi/mL	0.115237	0.315946	=
9/24/2010	HTO	0.773101	pCi/mL	0.113777	0.315946	=
9/24/2010	HTO	0.851308	pCi/mL	0.115445	0.315946	=
9/25/2010	HTO	0.981001	pCi/mL	0.114349	0.302113	=
9/25/2010	HTO	1.071923	pCi/mL	0.116236	0.302113	=
9/26/2010	HTO	0.732162	pCi/mL	0.109018	0.302113	=
9/26/2010	HTO	0.890079	pCi/mL	0.112431	0.302113	=
9/27/2010	HTO	0.890079	pCi/mL	0.112431	0.302113	=
9/27/2010	HTO	0.985786	pCi/mL	0.114449	0.302113	=
9/28/2010	HTO	1.09585	pCi/mL	0.116728	0.302113	=
9/28/2010	HTO	1.248981	pCi/mL	0.119825	0.302113	=
9/29/2010	HTO	1.483464	pCi/mL	0.12442	0.302113	=
9/29/2010	HTO	1.531318	pCi/mL	0.125336	0.302113	=
9/30/2010	HTO	1.382972	pCi/mL	0.122472	0.302113	=
9/30/2010	HTO	1.493035	pCi/mL	0.124604	0.302113	=
10/1/2010	HTO	1.349474	pCi/mL	0.121816	0.302113	=
10/1/2010	HTO	1.540889	pCi/mL	0.125519	0.302113	=
10/2/2010	HTO	1.277694	pCi/mL	0.120397	0.302113	=
10/2/2010	HTO	1.416469	pCi/mL	0.123124	0.302113	=
10/3/2010	HTO	1.311191	pCi/mL	0.121061	0.302113	=
10/3/2010	HTO	1.339903	pCi/mL	0.121627	0.302113	=
10/4/2010	HTO	1.215484	pCi/mL	0.119155	0.302113	=
10/4/2010	HTO	1.382972	pCi/mL	0.122472	0.302113	=
10/5/2010	HTO	1.172415	pCi/mL	0.118287	0.302113	=
10/5/2010	HTO	1.272908	pCi/mL	0.120302	0.302113	=
10/6/2010	HTO	1.196342	pCi/mL	0.11877	0.302113	=
10/6/2010	HTO	1.225055	pCi/mL	0.119347	0.302113	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
10/7/2010	HTO	1.067137	pCi/mL	0.116138	0.302113	=
10/7/2010	HTO	1.153274	pCi/mL	0.117899	0.302113	=
10/8/2010	HTO	1.22984	pCi/mL	0.119443	0.302113	=
10/8/2010	HTO	1.296835	pCi/mL	0.120777	0.302113	=
10/9/2010	HTO	1.172415	pCi/mL	0.118287	0.302113	=
10/9/2010	HTO	1.215484	pCi/mL	0.119155	0.302113	=
10/10/2010	HTO	1.258552	pCi/mL	0.120016	0.302113	=
10/10/2010	HTO	1.282479	pCi/mL	0.120493	0.302113	=
10/11/2010	HTO	1.172415	pCi/mL	0.118287	0.302113	=
10/11/2010	HTO	1.454752	pCi/mL	0.123866	0.302113	=
10/12/2010	HTO	1.009713	pCi/mL	0.114949	0.302113	=
10/12/2010	HTO	1.158059	pCi/mL	0.117996	0.302113	=
10/13/2010	HTO	1.138918	pCi/mL	0.117607	0.302113	=
10/13/2010	HTO	1.335118	pCi/mL	0.121533	0.302113	=
10/14/2010	HTO	0.957074	pCi/mL	0.113848	0.302113	=
10/14/2010	HTO	1.100635	pCi/mL	0.116826	0.302113	=
10/15/2010	HTO	1.39794	pCi/mL	0.132281	0.338586	=
10/16/2010	HTO	1.288233	pCi/mL	0.130197	0.338586	=
10/16/2010	HTO	1.577462	pCi/mL	0.135623	0.338586	=
10/17/2010	HTO	1.492688	pCi/mL	0.134055	0.338586	=
10/18/2010	HTO	1.562502	pCi/mL	0.135347	0.338586	=
10/18/2010	HTO	1.572475	pCi/mL	0.135531	0.338586	=
10/19/2010	HTO	1.692156	pCi/mL	0.137715	0.338586	=
10/19/2010	HTO	1.74701	pCi/mL	0.138705	0.338586	=
10/20/2010	HTO	1.742023	pCi/mL	0.138615	0.338586	=
10/20/2010	HTO	1.831784	pCi/mL	0.14022	0.338586	=
10/21/2010	HTO	1.70213	pCi/mL	0.137895	0.338586	=
10/21/2010	HTO	1.79189	pCi/mL	0.139509	0.338586	=
10/22/2010	HTO	1.547542	pCi/mL	0.135071	0.338586	=
10/22/2010	HTO	1.587435	pCi/mL	0.135806	0.338586	=
10/23/2010	HTO	1.477728	pCi/mL	0.133776	0.338586	=
10/23/2010	HTO	1.512635	pCi/mL	0.134425	0.338586	=
10/24/2010	HTO	1.677196	pCi/mL	0.137444	0.338586	=
10/24/2010	HTO	1.697143	pCi/mL	0.137805	0.338586	=
10/25/2010	HTO	1.465445	pCi/mL	0.131669	0.331944	=
10/25/2010	HTO	1.652627	pCi/mL	0.135125	0.331944	=
10/26/2010	HTO	1.3381	pCi/mL	0.131148	0.338586	=
10/26/2010	HTO	1.432847	pCi/mL	0.132937	0.338586	=
10/27/2010	HTO	0.994017	pCi/mL	0.124435	0.338586	=
10/27/2010	HTO	1.033911	pCi/mL	0.125232	0.338586	=
10/28/2010	HTO	0.749668	pCi/mL	0.119438	0.338586	=
10/28/2010	HTO	0.769615	pCi/mL	0.119854	0.338586	=
10/29/2010	HTO	0.575134	pCi/mL	0.115737	0.338586	=
10/29/2010	HTO	0.749668	pCi/mL	0.119438	0.338586	=
10/30/2010	HTO	0.615027	pCi/mL	0.116594	0.338586	=
10/30/2010	HTO	0.764628	pCi/mL	0.11975	0.338586	=
10/31/2010	HTO	0.759642	pCi/mL	0.119646	0.338586	=
10/31/2010	HTO	0.849403	pCi/mL	0.121503	0.338586	=
11/1/2010	HTO	0.729722	pCi/mL	0.119021	0.338586	=
11/1/2010	HTO	0.749668	pCi/mL	0.119438	0.338586	=
11/2/2010	HTO	0.721639	pCi/mL	0.116931	0.331944	=
11/2/2010	HTO	0.805379	pCi/mL	0.118682	0.331944	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
11/3/2010	HTO	0.824469	pCi/mL	0.12099	0.338586	=
11/3/2010	HTO	0.859376	pCi/mL	0.121707	0.338586	=
11/4/2010	HTO	0.824469	pCi/mL	0.12099	0.338586	=
11/4/2010	HTO	0.859376	pCi/mL	0.121707	0.338586	=
11/5/2010	HTO	0.989327	pCi/mL	0.115503	0.304677	=
11/5/2010	HTO	1.179208	pCi/mL	0.119438	0.304677	=
11/6/2010	HTO	1.101308	pCi/mL	0.11784	0.304677	=
11/6/2010	HTO	1.115915	pCi/mL	0.118141	0.304677	=
11/7/2010	HTO	1.076965	pCi/mL	0.117336	0.304677	=
11/7/2010	HTO	1.213289	pCi/mL	0.120131	0.304677	=
11/8/2010	HTO	0.875558	pCi/mL	0.115855	0.315484	=
11/8/2010	HTO	0.919581	pCi/mL	0.11678	0.315484	=
11/9/2010	HTO	1.072096	pCi/mL	0.117234	0.304677	=
11/9/2010	HTO	1.203552	pCi/mL	0.119933	0.304677	=
11/10/2010	HTO	1.261977	pCi/mL	0.121113	0.304677	=
11/10/2010	HTO	1.291189	pCi/mL	0.121699	0.304677	=
11/11/2010	HTO	1.183716	pCi/mL	0.122187	0.315484	=
11/11/2010	HTO	1.19839	pCi/mL	0.12248	0.315484	=
11/12/2010	HTO	1.203552	pCi/mL	0.119933	0.304677	=
11/12/2010	HTO	1.378826	pCi/mL	0.12344	0.304677	=
11/13/2010	HTO	1.437251	pCi/mL	0.124586	0.304677	=
11/13/2010	HTO	1.534626	pCi/mL	0.126475	0.304677	=
11/14/2010	HTO	1.398301	pCi/mL	0.123823	0.304677	=
11/14/2010	HTO	1.48107	pCi/mL	0.12544	0.304677	=
11/15/2010	HTO	1.490807	pCi/mL	0.125629	0.304677	=
11/15/2010	HTO	1.554101	pCi/mL	0.126849	0.304677	=
11/16/2010	HTO	1.223027	pCi/mL	0.120328	0.304677	=
11/16/2010	HTO	1.310664	pCi/mL	0.122088	0.304677	=
11/17/2010	HTO	1.40317	pCi/mL	0.123919	0.304677	=
11/18/2010	HTO	2.717729	pCi/mL	0.147499	0.304677	=
11/18/2010	HTO	3.039066	pCi/mL	0.152711	0.304677	=
11/19/2010	HTO	2.927085	pCi/mL	0.150915	0.304677	=
11/19/2010	HTO	3.21434	pCi/mL	0.15548	0.304677	=
11/20/2010	HTO	2.357649	pCi/mL	0.143777	0.315484	=
11/20/2010	HTO	2.489716	pCi/mL	0.146006	0.315484	=
11/21/2010	HTO	2.036106	pCi/mL	0.135785	0.304677	=
11/21/2010	HTO	2.352574	pCi/mL	0.141344	0.304677	=
11/22/2010	HTO	1.797538	pCi/mL	0.131438	0.304677	=
11/22/2010	HTO	2.138349	pCi/mL	0.137605	0.304677	=
11/23/2010	HTO	1.695294	pCi/mL	0.12953	0.304677	=
11/23/2010	HTO	1.82675	pCi/mL	0.131978	0.304677	=
11/24/2010	HTO	2.075056	pCi/mL	0.136481	0.304677	=
11/24/2010	HTO	2.269805	pCi/mL	0.139912	0.304677	=
11/25/2010	HTO	1.226326	pCi/mL	0.143159	0.386196	=
11/25/2010	HTO	1.5257	pCi/mL	0.148843	0.386196	=
11/26/2010	HTO	1.087727	pCi/mL	0.14045	0.386196	=
11/26/2010	HTO	1.265134	pCi/mL	0.143908	0.386196	=
11/27/2010	HTO	0.860424	pCi/mL	0.135889	0.386196	=
11/27/2010	HTO	0.993479	pCi/mL	0.138577	0.386196	=
11/28/2010	HTO	0.877056	pCi/mL	0.136228	0.386196	=
11/28/2010	HTO	0.987935	pCi/mL	0.138466	0.386196	=
11/29/2010	HTO	0.705193	pCi/mL	0.132685	0.386196	=
11/29/2010	HTO	0.816072	pCi/mL	0.134982	0.386196	=
11/30/2010	HTO	0.572138	pCi/mL	0.129876	0.386196	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
11/30/2010	HTO	0.771721	pCi/mL	0.134068	0.386196	=
12/1/2010	HTO	0.267219	pCi/mL	0.123196	0.386196	U
12/1/2010	HTO	0.283851	pCi/mL	0.12357	0.386196	U
12/2/2010	HTO	0.167428	pCi/mL	0.12093	0.386196	U
12/2/2010	HTO	0.289395	pCi/mL	0.123694	0.386196	U
12/3/2010	HTO	0.206236	pCi/mL	0.121816	0.386196	U
12/3/2010	HTO	0.250587	pCi/mL	0.122821	0.386196	U
12/4/2010	HTO	0.355923	pCi/mL	0.125176	0.386196	U
12/4/2010	HTO	0.45017	pCi/mL	0.127246	0.386196	=
12/5/2010	HTO	0.572138	pCi/mL	0.129876	0.386196	=
12/5/2010	HTO	0.727369	pCi/mL	0.133148	0.386196	=
12/7/2010	HTO	1.226326	pCi/mL	0.143159	0.386196	=
12/7/2010	HTO	1.248502	pCi/mL	0.143588	0.386196	=
12/9/2010	HTO	0.85488	pCi/mL	0.135776	0.386196	=
12/9/2010	HTO	0.971303	pCi/mL	0.138133	0.386196	=
12/10/2010	HTO	0.677473	pCi/mL	0.132105	0.386196	=
12/10/2010	HTO	0.832704	pCi/mL	0.135323	0.386196	=
12/11/2010	HTO	0.494522	pCi/mL	0.128208	0.386196	=
12/11/2010	HTO	0.627577	pCi/mL	0.131054	0.386196	=
12/12/2010	HTO	0.511154	pCi/mL	0.128568	0.386196	=
12/12/2010	HTO	0.538874	pCi/mL	0.129164	0.386196	=

ISCO 103 HTO Activity for 2010

Collection Date	Isotope	Activity	Units	CU	MDA	Code
1/1/2010	HTO	0.918791	pCi/mL	0.117379	0.319101	=
1/1/2010	HTO	1.000711	pCi/mL	0.119049	0.319101	=
1/15/2010	HTO	0.662003	pCi/mL	0.137012	0.405162	=
1/15/2010	HTO	0.77094	pCi/mL	0.139215	0.405162	=
1/16/2010	HTO	1.243001	pCi/mL	0.148385	0.405162	=
1/16/2010	HTO	1.416183	pCi/mL	0.15161	0.405162	=
1/17/2010	HTO	0.748594	pCi/mL	0.138766	0.405162	=
1/17/2010	HTO	0.837978	pCi/mL	0.140554	0.405162	=
1/18/2010	HTO	0.709488	pCi/mL	0.137977	0.405162	=
1/18/2010	HTO	0.734628	pCi/mL	0.138485	0.405162	=
1/19/2010	HTO	0.824012	pCi/mL	0.140276	0.405162	=
1/19/2010	HTO	0.980435	pCi/mL	0.143357	0.405162	=
1/20/2010	HTO	0.941329	pCi/mL	0.142593	0.405162	=
1/20/2010	HTO	0.997194	pCi/mL	0.143683	0.405162	=
1/21/2010	HTO	0.963675	pCi/mL	0.14303	0.405162	=
1/21/2010	HTO	1.212275	pCi/mL	0.147805	0.405162	=
1/22/2010	HTO	0.879877	pCi/mL	0.141384	0.405162	=
1/22/2010	HTO	0.913396	pCi/mL	0.142045	0.405162	=
1/23/2010	HTO	0.77094	pCi/mL	0.139215	0.405162	=
1/23/2010	HTO	0.849151	pCi/mL	0.140776	0.405162	=
1/24/2010	HTO	0.681556	pCi/mL	0.13741	0.405162	=
1/24/2010	HTO	0.743007	pCi/mL	0.138654	0.405162	=
1/25/2010	HTO	0.324018	pCi/mL	0.129939	0.405162	U
1/25/2010	HTO	0.499994	pCi/mL	0.133669	0.405162	=
2/2/2010	HTO	0.617311	pCi/mL	0.136098	0.405162	=
2/2/2010	HTO	0.636864	pCi/mL	0.136499	0.405162	=
2/3/2010	HTO	0.50478	pCi/mL	0.112253	0.332412	=
2/3/2010	HTO	0.611732	pCi/mL	0.114545	0.332412	=
2/4/2010	HTO	0.628747	pCi/mL	0.114906	0.332412	=
2/4/2010	HTO	0.701669	pCi/mL	0.116438	0.332412	=
2/5/2010	HTO	0.663171	pCi/mL	0.114864	0.330018	=
2/5/2010	HTO	0.711314	pCi/mL	0.115869	0.330018	=
2/6/2010	HTO	0.684835	pCi/mL	0.115318	0.330018	=
2/6/2010	HTO	0.747421	pCi/mL	0.116617	0.330018	=
2/7/2010	HTO	0.571699	pCi/mL	0.112931	0.330018	=
2/7/2010	HTO	0.617435	pCi/mL	0.113902	0.330018	=
2/8/2010	HTO	0.53638	pCi/mL	0.112935	0.332412	=
2/8/2010	HTO	0.706531	pCi/mL	0.11654	0.332412	=
2/9/2010	HTO	0.7041	pCi/mL	0.116489	0.332412	=
2/9/2010	HTO	0.706531	pCi/mL	0.11654	0.332412	=
2/10/2010	HTO	0.80376	pCi/mL	0.11855	0.332412	=
2/10/2010	HTO	0.913142	pCi/mL	0.120772	0.332412	=
2/11/2010	HTO	0.930157	pCi/mL	0.121114	0.332412	=
2/11/2010	HTO	1.076001	pCi/mL	0.124007	0.332412	=
2/12/2010	HTO	0.633609	pCi/mL	0.115009	0.332412	=
2/12/2010	HTO	0.63604	pCi/mL	0.11506	0.332412	=
2/13/2010	HTO	0.786744	pCi/mL	0.118201	0.332412	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
2/13/2010	HTO	0.791606	pCi/mL	0.118301	0.332412	=
2/14/2010	HTO	0.588549	pCi/mL	0.11329	0.330018	=
2/14/2010	HTO	0.677614	pCi/mL	0.115167	0.330018	=
2/15/2010	HTO	0.643332	pCi/mL	0.115214	0.332412	=
2/15/2010	HTO	0.655485	pCi/mL	0.11547	0.332412	=
2/16/2010	HTO	0.762437	pCi/mL	0.1177	0.332412	=
2/16/2010	HTO	0.815913	pCi/mL	0.118799	0.332412	=
2/17/2010	HTO	0.626317	pCi/mL	0.114854	0.332412	=
2/17/2010	HTO	0.660347	pCi/mL	0.115572	0.332412	=
2/18/2010	HTO	0.660764	pCi/mL	0.114814	0.330018	=
2/18/2010	HTO	0.680021	pCi/mL	0.115217	0.330018	=
2/19/2010	HTO	0.713721	pCi/mL	0.115919	0.330018	=
2/19/2010	HTO	0.920736	pCi/mL	0.120141	0.330018	=
2/20/2010	HTO	0.619024	pCi/mL	0.1147	0.332412	=
2/20/2010	HTO	0.830498	pCi/mL	0.119097	0.332412	=
2/21/2010	HTO	0.949622	pCi/mL	0.120718	0.330018	=
2/21/2010	HTO	0.983322	pCi/mL	0.121388	0.330018	=
2/22/2010	HTO	1.178091	pCi/mL	0.125992	0.332412	=
2/22/2010	HTO	1.40901	pCi/mL	0.130371	0.332412	=
2/23/2010	HTO	4.155728	pCi/mL	0.174211	0.332412	=
2/23/2010	HTO	4.627289	pCi/mL	0.180671	0.332412	=
3/18/2010	HTO	0.722772	pCi/mL	0.12514	0.3616	=
3/18/2010	HTO	0.808696	pCi/mL	0.126863	0.3616	=
3/19/2010	HTO	0.811223	pCi/mL	0.126914	0.3616	=
3/19/2010	HTO	0.821332	pCi/mL	0.127115	0.3616	=
3/20/2010	HTO	0.903777	pCi/mL	0.12246	0.33894	=
3/20/2010	HTO	1.0514	pCi/mL	0.125391	0.33894	=
3/21/2010	HTO	0.791006	pCi/mL	0.12651	0.3616	=
3/21/2010	HTO	0.79606	pCi/mL	0.126611	0.3616	=
3/22/2010	HTO	1.111957	pCi/mL	0.132767	0.3616	=
3/22/2010	HTO	1.248425	pCi/mL	0.13534	0.3616	=
3/23/2010	HTO	1.206403	pCi/mL	0.128396	0.33894	=
3/23/2010	HTO	1.258071	pCi/mL	0.129382	0.33894	=
3/24/2010	HTO	1.008343	pCi/mL	0.13078	0.3616	=
3/24/2010	HTO	1.245897	pCi/mL	0.135292	0.3616	=
3/25/2010	HTO	0.950218	pCi/mL	0.129652	0.3616	=
3/25/2010	HTO	0.967908	pCi/mL	0.129996	0.3616	=
3/26/2010	HTO	1.400055	pCi/mL	0.138142	0.3616	=
3/26/2010	HTO	1.498615	pCi/mL	0.139933	0.3616	=
3/27/2010	HTO	1.096794	pCi/mL	0.132478	0.3616	=
3/27/2010	HTO	1.180191	pCi/mL	0.134059	0.3616	=
3/28/2010	HTO	1.560241	pCi/mL	0.143561	0.36908	=
3/28/2010	HTO	1.570625	pCi/mL	0.143748	0.36908	=
3/29/2010	HTO	1.839783	pCi/mL	0.145965	0.3616	=
3/29/2010	HTO	1.872637	pCi/mL	0.146533	0.3616	=
3/30/2010	HTO	1.384892	pCi/mL	0.137864	0.3616	=
3/30/2010	HTO	1.465762	pCi/mL	0.139339	0.3616	=
3/31/2010	HTO	1.293914	pCi/mL	0.136186	0.3616	=
3/31/2010	HTO	1.619919	pCi/mL	0.142107	0.3616	=
4/1/2010	HTO	1.427837	pCi/mL	0.132571	0.33894	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
4/1/2010	HTO	1.462282	pCi/mL	0.133209	0.33894	=
4/2/2010	HTO	1.152392	pCi/mL	0.133534	0.3616	=
4/3/2010	HTO	0.983071	pCi/mL	0.130291	0.3616	=
4/3/2010	HTO	1.268642	pCi/mL	0.135717	0.3616	=
4/4/2010	HTO	1.255611	pCi/mL	0.129336	0.33894	=
4/4/2010	HTO	1.312199	pCi/mL	0.130408	0.33894	=
4/5/2010	HTO	1.110449	pCi/mL	0.126544	0.33894	=
4/5/2010	HTO	1.326962	pCi/mL	0.130686	0.33894	=
4/6/2010	HTO	0.972962	pCi/mL	0.130094	0.3616	=
4/6/2010	HTO	1.051305	pCi/mL	0.131607	0.3616	=
4/7/2010	HTO	0.937582	pCi/mL	0.129405	0.3616	=
4/7/2010	HTO	1.02856	pCi/mL	0.13117	0.3616	=
4/8/2010	HTO	1.077672	pCi/mL	0.126343	0.33641	=
4/8/2010	HTO	1.098347	pCi/mL	0.126765	0.33641	=
4/9/2010	HTO	1.186215	pCi/mL	0.128544	0.33641	=
4/9/2010	HTO	1.294757	pCi/mL	0.130708	0.33641	=
4/10/2010	HTO	1.005311	pCi/mL	0.124854	0.33641	=
4/10/2010	HTO	1.041491	pCi/mL	0.1256	0.33641	=
4/11/2010	HTO	0.92778	pCi/mL	0.123238	0.33641	=
4/11/2010	HTO	1.186215	pCi/mL	0.128544	0.33641	=
4/12/2010	HTO	1.103516	pCi/mL	0.12687	0.33641	=
4/12/2010	HTO	1.222396	pCi/mL	0.129269	0.33641	=
4/13/2010	HTO	1.000142	pCi/mL	0.124747	0.33641	=
4/13/2010	HTO	1.113853	pCi/mL	0.12708	0.33641	=
4/14/2010	HTO	0.912274	pCi/mL	0.122913	0.33641	=
4/14/2010	HTO	1.031154	pCi/mL	0.125387	0.33641	=
4/15/2010	HTO	0.948455	pCi/mL	0.123671	0.33641	=
4/15/2010	HTO	1.04666	pCi/mL	0.125707	0.33641	=
4/16/2010	HTO	1.015648	pCi/mL	0.125067	0.33641	=
4/16/2010	HTO	1.119022	pCi/mL	0.127186	0.33641	=
4/17/2010	HTO	1.025985	pCi/mL	0.125281	0.33641	=
4/17/2010	HTO	1.28442	pCi/mL	0.130503	0.33641	=
4/18/2010	HTO	0.845081	pCi/mL	0.121492	0.33641	=
4/18/2010	HTO	0.907105	pCi/mL	0.122804	0.33641	=
4/19/2010	HTO	0.931762	pCi/mL	0.115978	0.309272	=
4/19/2010	HTO	0.966828	pCi/mL	0.116733	0.309272	=
4/20/2010	HTO	1.041491	pCi/mL	0.1256	0.33641	=
4/20/2010	HTO	1.067335	pCi/mL	0.126131	0.33641	=
4/21/2010	HTO	0.948455	pCi/mL	0.123671	0.33641	=
4/21/2010	HTO	0.989804	pCi/mL	0.124532	0.33641	=
4/22/2010	HTO	0.901937	pCi/mL	0.122695	0.33641	=
4/22/2010	HTO	0.948455	pCi/mL	0.123671	0.33641	=
4/23/2010	HTO	0.695189	pCi/mL	0.11826	0.33641	=
4/23/2010	HTO	0.886431	pCi/mL	0.122368	0.33641	=
4/24/2010	HTO	0.814069	pCi/mL	0.12083	0.33641	=
4/24/2010	HTO	0.932949	pCi/mL	0.123347	0.33641	=
4/25/2010	HTO	2.545581	pCi/mL	0.153459	0.33641	=
4/25/2010	HTO	2.633449	pCi/mL	0.154931	0.33641	=
4/26/2010	HTO	2.964245	pCi/mL	0.160354	0.33641	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
4/26/2010	HTO	3.243354	pCi/mL	0.164791	0.33641	=
4/27/2010	HTO	3.25886	pCi/mL	0.165034	0.33641	=
4/28/2010	HTO	2.266471	pCi/mL	0.148684	0.33641	=
4/29/2010	HTO	1.728927	pCi/mL	0.139027	0.33641	=
4/29/2010	HTO	1.95635	pCi/mL	0.143192	0.33641	=
4/30/2010	HTO	1.705974	pCi/mL	0.139242	0.337521	=
4/30/2010	HTO	1.742605	pCi/mL	0.139929	0.337521	=
5/1/2010	HTO	1.564682	pCi/mL	0.136562	0.337521	=
5/1/2010	HTO	1.669343	pCi/mL	0.138552	0.337521	=
5/2/2010	HTO	0.999512	pCi/mL	0.125266	0.337521	=
5/2/2010	HTO	1.214067	pCi/mL	0.12967	0.337521	=
5/3/2010	HTO	0.533771	pCi/mL	0.115127	0.337521	=
5/3/2010	HTO	0.580868	pCi/mL	0.116193	0.337521	=
5/4/2010	HTO	0.596568	pCi/mL	0.116546	0.337521	=
5/4/2010	HTO	0.748326	pCi/mL	0.119904	0.337521	=
5/5/2010	HTO	0.396415	pCi/mL	0.117852	0.357506	=
5/5/2010	HTO	0.62449	pCi/mL	0.122995	0.357506	=
5/6/2010	HTO	0.523305	pCi/mL	0.114889	0.337521	=
5/6/2010	HTO	0.680296	pCi/mL	0.11841	0.337521	=
5/7/2010	HTO	0.586101	pCi/mL	0.11631	0.337521	=
5/7/2010	HTO	0.66983	pCi/mL	0.118179	0.337521	=
5/8/2010	HTO	0.622733	pCi/mL	0.117131	0.337521	=
5/8/2010	HTO	0.633199	pCi/mL	0.117365	0.337521	=
5/9/2010	HTO	0.523305	pCi/mL	0.114889	0.337521	=
5/9/2010	HTO	0.66983	pCi/mL	0.118179	0.337521	=
5/10/2010	HTO	0.654131	pCi/mL	0.117831	0.337521	=
5/10/2010	HTO	0.690762	pCi/mL	0.118641	0.337521	=
5/11/2010	HTO	0.575635	pCi/mL	0.116075	0.337521	=
5/11/2010	HTO	0.627966	pCi/mL	0.117248	0.337521	=
5/12/2010	HTO	0.92625	pCi/mL	0.123726	0.337521	=
5/12/2010	HTO	1.083241	pCi/mL	0.127003	0.337521	=
5/13/2010	HTO	0.586101	pCi/mL	0.11631	0.337521	=
5/13/2010	HTO	0.6175	pCi/mL	0.117015	0.337521	=
5/14/2010	HTO	0.910551	pCi/mL	0.123393	0.337521	=
5/14/2010	HTO	0.92625	pCi/mL	0.123726	0.337521	=
5/15/2010	HTO	0.821589	pCi/mL	0.121492	0.337521	=
5/15/2010	HTO	0.832055	pCi/mL	0.121718	0.337521	=
5/16/2010	HTO	1.125106	pCi/mL	0.127862	0.337521	=
5/16/2010	HTO	1.177436	pCi/mL	0.128929	0.337521	=
5/17/2010	HTO	0.66983	pCi/mL	0.118179	0.337521	=
5/17/2010	HTO	0.900084	pCi/mL	0.123171	0.337521	=
5/18/2010	HTO	0.743093	pCi/mL	0.11979	0.337521	=
5/18/2010	HTO	0.973347	pCi/mL	0.124718	0.337521	=
5/19/2010	HTO	0.695996	pCi/mL	0.118757	0.337521	=
5/19/2010	HTO	0.774491	pCi/mL	0.120474	0.337521	=
5/20/2010	HTO	0.596568	pCi/mL	0.116546	0.337521	=
5/20/2010	HTO	0.758792	pCi/mL	0.120132	0.337521	=
5/21/2010	HTO	0.732275	pCi/mL	0.115196	0.321087	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
5/21/2010	HTO	0.812773	pCi/mL	0.116997	0.321087	=
5/22/2010	HTO	1.111396	pCi/mL	0.123447	0.321087	=
5/22/2010	HTO	1.191894	pCi/mL	0.125128	0.321087	=
5/23/2010	HTO	0.799789	pCi/mL	0.116708	0.321087	=
5/23/2010	HTO	0.898465	pCi/mL	0.118883	0.321087	=
5/24/2010	HTO	0.885481	pCi/mL	0.118599	0.321087	=
5/24/2010	HTO	0.927029	pCi/mL	0.119506	0.321087	=
5/25/2010	HTO	0.633599	pCi/mL	0.11295	0.321087	=
5/25/2010	HTO	0.776419	pCi/mL	0.116187	0.321087	=
5/26/2010	HTO	0.51415	pCi/mL	0.110169	0.321087	=
5/26/2010	HTO	0.566085	pCi/mL	0.111387	0.321087	=
5/27/2010	HTO	0.470006	pCi/mL	0.109124	0.321087	=
5/27/2010	HTO	0.581665	pCi/mL	0.111749	0.321087	=
5/28/2010	HTO	0.682937	pCi/mL	0.114078	0.321087	=
5/28/2010	HTO	0.789403	pCi/mL	0.116477	0.321087	=
5/29/2010	HTO	0.48299	pCi/mL	0.109433	0.321087	=
5/29/2010	HTO	0.519344	pCi/mL	0.110292	0.321087	=
5/30/2010	HTO	0.690727	pCi/mL	0.114256	0.321087	=
5/30/2010	HTO	0.729678	pCi/mL	0.115137	0.321087	=
5/31/2010	HTO	0.742662	pCi/mL	0.11543	0.321087	=
5/31/2010	HTO	0.789403	pCi/mL	0.116477	0.321087	=
6/1/2010	HTO	0.636196	pCi/mL	0.113009	0.321087	=
6/1/2010	HTO	0.643986	pCi/mL	0.113188	0.321087	=
6/2/2010	HTO	0.485586	pCi/mL	0.109494	0.321087	=
6/2/2010	HTO	0.519344	pCi/mL	0.110292	0.321087	=
6/3/2010	HTO	0.521941	pCi/mL	0.110353	0.321087	=
6/3/2010	HTO	0.560891	pCi/mL	0.111266	0.321087	=
6/4/2010	HTO	0.555698	pCi/mL	0.111144	0.321087	=
6/4/2010	HTO	0.623213	pCi/mL	0.112711	0.321087	=
6/5/2010	HTO	0.537521	pCi/mL	0.110719	0.321087	=
6/5/2010	HTO	0.67255	pCi/mL	0.113842	0.321087	=
6/6/2010	HTO	0.568681	pCi/mL	0.111447	0.321087	=
6/6/2010	HTO	0.690727	pCi/mL	0.114256	0.321087	=
6/7/2010	HTO	0.454426	pCi/mL	0.108753	0.321087	=
6/7/2010	HTO	0.568681	pCi/mL	0.111447	0.321087	=
6/8/2010	HTO	0.441442	pCi/mL	0.108442	0.321087	=
6/8/2010	HTO	0.563488	pCi/mL	0.111326	0.321087	=
6/9/2010	HTO	0.558295	pCi/mL	0.111205	0.321087	=
6/9/2010	HTO	0.638793	pCi/mL	0.113069	0.321087	=
6/10/2010	HTO	0.843934	pCi/mL	0.117686	0.321087	=
6/10/2010	HTO	0.924432	pCi/mL	0.119449	0.321087	=
6/11/2010	HTO	0.66476	pCi/mL	0.113664	0.321087	=
6/11/2010	HTO	0.753048	pCi/mL	0.115663	0.321087	=
6/12/2010	HTO	0.249918	pCi/mL	0.101249	0.31489	U
6/12/2010	HTO	0.320996	pCi/mL	0.102846	0.31489	=
6/13/2010	HTO	0.371438	pCi/mL	0.103964	0.31489	=
6/13/2010	HTO	0.415002	pCi/mL	0.10492	0.31489	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
6/14/2010	HTO	0.279725	pCi/mL	0.101921	0.31489	U
6/14/2010	HTO	0.586964	pCi/mL	0.108613	0.31489	=
6/15/2010	HTO	0.534229	pCi/mL	0.107494	0.31489	=
6/15/2010	HTO	0.641992	pCi/mL	0.109769	0.31489	=
6/16/2010	HTO	0.529643	pCi/mL	0.107396	0.31489	=
6/16/2010	HTO	0.534229	pCi/mL	0.107494	0.31489	=
6/17/2010	HTO	0.513593	pCi/mL	0.107053	0.31489	=
6/21/2010	HTO	0.188012	pCi/mL	0.099837	0.31489	U
6/21/2010	HTO	0.353095	pCi/mL	0.103559	0.31489	=
6/22/2010	HTO	0.314117	pCi/mL	0.102692	0.31489	U
6/22/2010	HTO	0.327874	pCi/mL	0.102999	0.31489	=
6/23/2010	HTO	0.110056	pCi/mL	0.09803	0.31489	U
6/23/2010	HTO	0.188012	pCi/mL	0.099837	0.31489	U
6/24/2010	HTO	0.167376	pCi/mL	0.099362	0.31489	U
6/24/2010	HTO	0.231576	pCi/mL	0.100832	0.31489	U
6/25/2010	HTO	0.142155	pCi/mL	0.098778	0.31489	U
6/25/2010	HTO	0.256797	pCi/mL	0.101404	0.31489	U
6/26/2010	HTO	0.149034	pCi/mL	0.098938	0.31489	U
6/26/2010	HTO	0.155912	pCi/mL	0.099097	0.31489	U
6/27/2010	HTO	0.181133	pCi/mL	0.099679	0.31489	U
6/27/2010	HTO	0.396659	pCi/mL	0.104519	0.31489	=
6/28/2010	HTO	0.183426	pCi/mL	0.099731	0.31489	U
6/28/2010	HTO	0.277432	pCi/mL	0.10187	0.31489	U
6/29/2010	HTO	0.045857	pCi/mL	0.096517	0.31489	U
6/29/2010	HTO	0.208647	pCi/mL	0.10031	0.31489	U
6/30/2010	HTO	0.10547	pCi/mL	0.097923	0.31489	U
6/30/2010	HTO	0.284311	pCi/mL	0.102024	0.31489	U
7/1/2010	HTO	0.146741	pCi/mL	0.098884	0.31489	U
7/1/2010	HTO	0.231576	pCi/mL	0.100832	0.31489	U
7/2/2010	HTO	0.038978	pCi/mL	0.096353	0.31489	U
7/2/2010	HTO	0.126106	pCi/mL	0.098405	0.31489	U
7/3/2010	HTO	0.31298	pCi/mL	0.102826	0.315501	U
7/3/2010	HTO	0.340444	pCi/mL	0.103436	0.315501	=
7/4/2010	HTO	0.228298	pCi/mL	0.100924	0.315501	U
7/4/2010	HTO	0.239741	pCi/mL	0.101183	0.315501	U
7/5/2010	HTO	0.184813	pCi/mL	0.099933	0.315501	U
7/5/2010	HTO	0.349599	pCi/mL	0.103638	0.315501	=
7/6/2010	HTO	0.18939	pCi/mL	0.100037	0.315501	U
7/6/2010	HTO	0.331289	pCi/mL	0.103233	0.315501	=
7/7/2010	HTO	0.280938	pCi/mL	0.10211	0.315501	U
7/7/2010	HTO	0.331289	pCi/mL	0.103233	0.315501	=
7/8/2010	HTO	0.173369	pCi/mL	0.09967	0.315501	U
7/8/2010	HTO	0.216854	pCi/mL	0.100664	0.315501	U
7/9/2010	HTO	0.148193	pCi/mL	0.09909	0.315501	U
7/9/2010	HTO	0.184813	pCi/mL	0.099933	0.315501	U
7/10/2010	HTO	0.052068	pCi/mL	0.096845	0.315501	U
7/10/2010	HTO	0.150482	pCi/mL	0.099143	0.315501	U
7/11/2010	HTO	0.290093	pCi/mL	0.102315	0.315501	U
7/11/2010	HTO	0.331289	pCi/mL	0.103233	0.315501	=
7/12/2010	HTO	0.143616	pCi/mL	0.098985	0.315501	U

Collection Date	Isotope	Activity	Units	CU	MDA	Code
7/12/2010	HTO	0.180235	pCi/mL	0.099828	0.315501	U
7/13/2010	HTO	0.203122	pCi/mL	0.100351	0.315501	U
7/13/2010	HTO	0.345022	pCi/mL	0.103537	0.315501	=
7/14/2010	HTO	0.468611	pCi/mL	0.106234	0.315501	=
7/14/2010	HTO	0.539561	pCi/mL	0.107751	0.315501	=
7/15/2010	HTO	0.29467	pCi/mL	0.102418	0.315501	U
7/15/2010	HTO	0.420549	pCi/mL	0.105193	0.315501	=
7/16/2010	HTO	0.308402	pCi/mL	0.102724	0.315501	U
7/16/2010	HTO	0.386218	pCi/mL	0.104444	0.315501	=
7/17/2010	HTO	0.422837	pCi/mL	0.105243	0.315501	=
7/17/2010	HTO	0.459457	pCi/mL	0.106036	0.315501	=
7/18/2010	HTO	0.651707	pCi/mL	0.110108	0.315501	=
7/18/2010	HTO	0.660862	pCi/mL	0.110298	0.315501	=
7/19/2010	HTO	0.372486	pCi/mL	0.104142	0.315501	=
7/19/2010	HTO	0.461745	pCi/mL	0.106086	0.315501	=
7/20/2010	HTO	0.349599	pCi/mL	0.103638	0.315501	=
7/20/2010	HTO	0.539561	pCi/mL	0.107751	0.315501	=
7/21/2010	HTO	0.612799	pCi/mL	0.109296	0.315501	=
7/21/2010	HTO	0.642553	pCi/mL	0.109917	0.315501	=
7/22/2010	HTO	0.344911	pCi/mL	0.105156	0.3208	=
7/22/2010	HTO	0.501054	pCi/mL	0.108561	0.3208	=
7/23/2010	HTO	0.201314	pCi/mL	0.112723	0.356911	U
7/23/2010	HTO	0.376733	pCi/mL	0.116557	0.356911	=
7/24/2010	HTO	0.251434	pCi/mL	0.113832	0.356911	U
7/24/2010	HTO	0.384251	pCi/mL	0.116719	0.356911	=
7/25/2010	HTO	0.208832	pCi/mL	0.11289	0.356911	U
7/25/2010	HTO	0.276494	pCi/mL	0.114382	0.356911	U
7/26/2010	HTO	0.26647	pCi/mL	0.114162	0.356911	U
7/26/2010	HTO	0.386757	pCi/mL	0.116773	0.356911	=
7/27/2010	HTO	0.341649	pCi/mL	0.115801	0.356911	U
7/27/2010	HTO	0.409311	pCi/mL	0.117256	0.356911	=
7/28/2010	HTO	0.243916	pCi/mL	0.113666	0.356911	J
7/28/2010	HTO	3.915181	pCi/mL	0.176975	0.356911	J
7/29/2010	HTO	0.14117	pCi/mL	0.111378	0.356911	U
7/29/2010	HTO	0.24141	pCi/mL	0.113611	0.356911	U
7/30/2010	HTO	0.076015	pCi/mL	0.109902	0.356911	U
7/30/2010	HTO	0.319095	pCi/mL	0.115312	0.356911	U
7/31/2010	HTO	0.223868	pCi/mL	0.113223	0.356911	U
7/31/2010	HTO	0.361697	pCi/mL	0.116234	0.356911	=
8/1/2010	HTO	0.361942	pCi/mL	0.112051	0.342228	=
8/1/2010	HTO	0.498759	pCi/mL	0.115049	0.342228	=
8/2/2010	HTO	0.16623	pCi/mL	0.11194	0.356911	U
8/2/2010	HTO	0.188784	pCi/mL	0.112444	0.356911	U
8/3/2010	HTO	0.118617	pCi/mL	0.110869	0.356911	U
8/3/2010	HTO	0.151194	pCi/mL	0.111603	0.356911	U
8/4/2010	HTO	0.201314	pCi/mL	0.112723	0.356911	U
8/5/2010	HTO	0.146182	pCi/mL	0.11149	0.356911	U
8/5/2010	HTO	0.181266	pCi/mL	0.112276	0.356911	U
8/6/2010	HTO	0.163724	pCi/mL	0.111884	0.356911	U

Collection Date	Isotope	Activity	Units	CU	MDA	Code
8/6/2010	HTO	0.256446	pCi/mL	0.113942	0.356911	U
8/7/2010	HTO	0.146182	pCi/mL	0.11149	0.356911	U
8/7/2010	HTO	0.26647	pCi/mL	0.114162	0.356911	U
8/9/2010	HTO	0.235076	pCi/mL	0.109199	0.342228	U
8/10/2010	HTO	0.168736	pCi/mL	0.111996	0.356911	U
8/10/2010	HTO	0.444394	pCi/mL	0.118003	0.356911	=
8/11/2010	HTO	0.138664	pCi/mL	0.111321	0.356911	U
8/11/2010	HTO	0.466948	pCi/mL	0.118481	0.356911	=
8/12/2010	HTO	-0.01169	pCi/mL	0.107883	0.356911	U
8/12/2010	HTO	0.071003	pCi/mL	0.109788	0.356911	U
8/13/2010	HTO	0.220599	pCi/mL	0.101056	0.315661	U
8/13/2010	HTO	0.432528	pCi/mL	0.105986	0.315661	=
8/14/2010	HTO	0.369913	pCi/mL	0.104554	0.315661	=
8/14/2010	HTO	0.442161	pCi/mL	0.106205	0.315661	=
8/15/2010	HTO	0.442161	pCi/mL	0.106205	0.315661	=
8/15/2010	HTO	0.52886	pCi/mL	0.108153	0.315661	=
8/16/2010	HTO	0.408445	pCi/mL	0.105438	0.315661	=
8/16/2010	HTO	0.461428	pCi/mL	0.106641	0.315661	=
8/17/2010	HTO	0.307297	pCi/mL	0.103102	0.315661	U
8/17/2010	HTO	0.389179	pCi/mL	0.104997	0.315661	=
8/18/2010	HTO	0.225416	pCi/mL	0.101171	0.315661	U
8/18/2010	HTO	0.341013	pCi/mL	0.103886	0.315661	=
8/19/2010	HTO	0.230232	pCi/mL	0.101286	0.315661	U
8/19/2010	HTO	0.259132	pCi/mL	0.10197	0.315661	U
8/20/2010	HTO	0.254315	pCi/mL	0.101857	0.315661	U
8/20/2010	HTO	0.273581	pCi/mL	0.102311	0.315661	U
8/21/2010	HTO	0.196516	pCi/mL	0.100481	0.315661	U
8/21/2010	HTO	0.220599	pCi/mL	0.101056	0.315661	U
8/22/2010	HTO	0.109818	pCi/mL	0.098381	0.315661	U
8/22/2010	HTO	0.119451	pCi/mL	0.098616	0.315661	U
8/23/2010	HTO	0.071285	pCi/mL	0.097433	0.315661	U
8/23/2010	HTO	0.143534	pCi/mL	0.099203	0.315661	U
8/24/2010	HTO	0.235049	pCi/mL	0.1014	0.315661	U
8/24/2010	HTO	0.263948	pCi/mL	0.102084	0.315661	U
8/25/2010	HTO	0.182066	pCi/mL	0.100134	0.315661	U
8/25/2010	HTO	0.398812	pCi/mL	0.105218	0.315661	=
8/26/2010	HTO	0.278398	pCi/mL	0.102424	0.315661	U
8/26/2010	HTO	0.288031	pCi/mL	0.102651	0.315661	U
8/27/2010	HTO	0.239865	pCi/mL	0.101514	0.315661	U
8/27/2010	HTO	0.341013	pCi/mL	0.103886	0.315661	=
8/28/2010	HTO	0.244682	pCi/mL	0.101629	0.315661	U
8/28/2010	HTO	0.355463	pCi/mL	0.104221	0.315661	=
8/29/2010	HTO	0.182066	pCi/mL	0.100134	0.315661	U
8/29/2010	HTO	0.235049	pCi/mL	0.1014	0.315661	U
8/30/2010	HTO	0.119451	pCi/mL	0.098616	0.315661	U
8/30/2010	HTO	0.239865	pCi/mL	0.101514	0.315661	U
8/31/2010	HTO	0.186883	pCi/mL	0.10025	0.315661	U
8/31/2010	HTO	0.408445	pCi/mL	0.105438	0.315661	=
9/1/2010	HTO	0.182066	pCi/mL	0.100134	0.315661	U
9/1/2010	HTO	0.326564	pCi/mL	0.103551	0.315661	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
9/2/2010	HTO	0.105451	pCi/mL	0.103901	0.334521	U
9/2/2010	HTO	0.258207	pCi/mL	0.107463	0.334521	U
9/3/2010	HTO	-0.00296	pCi/mL	0.101298	0.334521	U
9/3/2010	HTO	0.218786	pCi/mL	0.106555	0.334521	U
9/4/2010	HTO	0.18922	pCi/mL	0.105869	0.334521	U
9/4/2010	HTO	0.253279	pCi/mL	0.10735	0.334521	U
9/5/2010	HTO	0.16951	pCi/mL	0.105409	0.334521	U
9/5/2010	HTO	0.302555	pCi/mL	0.108475	0.334521	U
9/6/2010	HTO	0.075885	pCi/mL	0.103198	0.334521	U
9/6/2010	HTO	0.179365	pCi/mL	0.10564	0.334521	U
9/7/2010	HTO	0.159655	pCi/mL	0.105179	0.334521	U
9/7/2010	HTO	0.248352	pCi/mL	0.107236	0.334521	U
9/8/2010	HTO	0.135017	pCi/mL	0.1046	0.334521	U
9/8/2010	HTO	0.238496	pCi/mL	0.10701	0.334521	U
9/9/2010	HTO	0.194148	pCi/mL	0.105984	0.334521	U
9/9/2010	HTO	0.228641	pCi/mL	0.106783	0.334521	U
9/10/2010	HTO	0.297628	pCi/mL	0.108363	0.334521	U
9/11/2010	HTO	0.213858	pCi/mL	0.106441	0.334521	U
9/11/2010	HTO	0.322266	pCi/mL	0.108921	0.334521	U
9/12/2010	HTO	0.095596	pCi/mL	0.103667	0.334521	U
9/12/2010	HTO	0.125161	pCi/mL	0.104368	0.334521	U
9/13/2010	HTO	0.070958	pCi/mL	0.10308	0.334521	U
9/13/2010	HTO	0.199076	pCi/mL	0.106098	0.334521	U
9/14/2010	HTO	0.120234	pCi/mL	0.104251	0.334521	U
9/14/2010	HTO	0.228641	pCi/mL	0.106783	0.334521	U
9/16/2010	HTO	0.149799	pCi/mL	0.104948	0.334521	U
9/16/2010	HTO	0.327193	pCi/mL	0.109033	0.334521	U
9/17/2010	HTO	0.159655	pCi/mL	0.105179	0.334521	U
9/17/2010	HTO	0.243424	pCi/mL	0.107123	0.334521	U
9/18/2010	HTO	0.218786	pCi/mL	0.106555	0.334521	U
9/18/2010	HTO	0.243424	pCi/mL	0.107123	0.334521	U
9/28/2010	HTO	-0.07361	pCi/mL	0.112516	0.376934	U
9/28/2010	HTO	0.073605	pCi/mL	0.115904	0.376934	U
9/29/2010	HTO	-0.00526	pCi/mL	0.114101	0.376934	U
9/29/2010	HTO	0.052575	pCi/mL	0.115426	0.376934	U
10/1/2010	HTO	0.141953	pCi/mL	0.117444	0.376934	U
10/1/2010	HTO	0.14721	pCi/mL	0.117562	0.376934	U
10/14/2010	HTO	0.094635	pCi/mL	0.11638	0.376934	U
10/14/2010	HTO	0.220815	pCi/mL	0.119196	0.376934	U
10/15/2010	HTO	0.181283	pCi/mL	0.100524	0.316748	U
10/15/2010	HTO	0.220657	pCi/mL	0.101484	0.316748	U
10/16/2010	HTO	0.254925	pCi/mL	0.099453	0.306973	U
10/16/2010	HTO	0.28406	pCi/mL	0.100162	0.306973	U
10/17/2010	HTO	0.156675	pCi/mL	0.09992	0.316748	U
10/17/2010	HTO	0.17144	pCi/mL	0.100283	0.316748	U
10/18/2010	HTO	0.176362	pCi/mL	0.100404	0.316748	U
10/18/2010	HTO	0.269874	pCi/mL	0.10267	0.316748	U
10/19/2010	HTO	0.260031	pCi/mL	0.102434	0.316748	U
10/19/2010	HTO	0.28464	pCi/mL	0.103024	0.316748	U
10/20/2010	HTO	0.289561	pCi/mL	0.103141	0.316748	U

Collection Date	Isotope	Activity	Units	CU	MDA	Code
10/20/2010	HTO	0.324013	pCi/mL	0.10396	0.316748	=
10/21/2010	HTO	0.333857	pCi/mL	0.104193	0.316748	=
10/22/2010	HTO	0.20097	pCi/mL	0.101005	0.316748	U
10/22/2010	HTO	0.348622	pCi/mL	0.104541	0.316748	=
10/23/2010	HTO	0.264953	pCi/mL	0.102552	0.316748	U
10/23/2010	HTO	0.333857	pCi/mL	0.104193	0.316748	=
10/24/2010	HTO	0.166518	pCi/mL	0.100162	0.316748	U
10/24/2010	HTO	0.230501	pCi/mL	0.101722	0.316748	U
10/25/2010	HTO	0.225579	pCi/mL	0.101603	0.316748	U
10/25/2010	HTO	0.294483	pCi/mL	0.103258	0.316748	U
10/26/2010	HTO	0.186205	pCi/mL	0.100645	0.316748	U
10/26/2010	HTO	0.289561	pCi/mL	0.103141	0.316748	U
10/27/2010	HTO	0.097614	pCi/mL	0.098455	0.316748	U
10/27/2010	HTO	0.210814	pCi/mL	0.101245	0.316748	U
10/28/2010	HTO	0.196049	pCi/mL	0.100885	0.316748	U
10/28/2010	HTO	0.289561	pCi/mL	0.103141	0.316748	U
10/29/2010	HTO	0.186205	pCi/mL	0.100645	0.316748	U
10/29/2010	HTO	0.245266	pCi/mL	0.102079	0.316748	U
10/30/2010	HTO	0.146831	pCi/mL	0.099678	0.316748	U
10/30/2010	HTO	0.255109	pCi/mL	0.102316	0.316748	U
10/31/2010	HTO	0.181283	pCi/mL	0.100524	0.316748	U
10/31/2010	HTO	0.294483	pCi/mL	0.103258	0.316748	U
11/1/2010	HTO	0.289561	pCi/mL	0.103141	0.316748	U
11/1/2010	HTO	0.319092	pCi/mL	0.103843	0.316748	=
11/2/2010	HTO	0.328935	pCi/mL	0.104076	0.316748	=
11/2/2010	HTO	0.383074	pCi/mL	0.105349	0.316748	=
11/3/2010	HTO	0.240344	pCi/mL	0.10196	0.316748	U
11/3/2010	HTO	0.373231	pCi/mL	0.105118	0.316748	=
11/4/2010	HTO	0.225579	pCi/mL	0.101603	0.316748	U
11/4/2010	HTO	0.402761	pCi/mL	0.105807	0.316748	=
11/5/2010	HTO	0.240102	pCi/mL	0.101437	0.314424	U
11/5/2010	HTO	0.265323	pCi/mL	0.102062	0.314424	U
11/6/2010	HTO	0.260279	pCi/mL	0.101937	0.314424	U
11/6/2010	HTO	0.2855	pCi/mL	0.102559	0.314424	U
11/7/2010	HTO	0.320809	pCi/mL	0.103424	0.314424	=
11/7/2010	HTO	0.366207	pCi/mL	0.104525	0.314424	=
11/8/2010	HTO	0.134175	pCi/mL	0.098768	0.314424	U
11/8/2010	HTO	0.361162	pCi/mL	0.104403	0.314424	=
11/9/2010	HTO	0.119042	pCi/mL	0.098381	0.314424	U
11/9/2010	HTO	0.250191	pCi/mL	0.101687	0.314424	U
11/10/2010	HTO	0.270367	pCi/mL	0.102186	0.314424	U
11/10/2010	HTO	0.401516	pCi/mL	0.105374	0.314424	=
11/11/2010	HTO	0.179572	pCi/mL	0.09992	0.314424	U
11/11/2010	HTO	0.250191	pCi/mL	0.101687	0.314424	U
11/12/2010	HTO	0.16444	pCi/mL	0.099538	0.314424	U
11/12/2010	HTO	0.325853	pCi/mL	0.103547	0.314424	=
11/13/2010	HTO	0.230014	pCi/mL	0.101186	0.314424	U
11/13/2010	HTO	0.396472	pCi/mL	0.105253	0.314424	=
11/14/2010	HTO	0.416648	pCi/mL	0.105735	0.314424	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
11/15/2010	HTO	0.169484	pCi/mL	0.099665	0.314424	U
11/15/2010	HTO	0.305677	pCi/mL	0.103054	0.314424	U
11/16/2010	HTO	0.260279	pCi/mL	0.101937	0.314424	U
11/16/2010	HTO	0.300632	pCi/mL	0.102931	0.314424	U
11/20/2010	HTO	0.250191	pCi/mL	0.101687	0.314424	U
11/20/2010	HTO	0.34603	pCi/mL	0.104037	0.314424	=
11/21/2010	HTO	0.22497	pCi/mL	0.10106	0.314424	U
11/21/2010	HTO	0.320809	pCi/mL	0.103424	0.314424	=
11/22/2010	HTO	0.290544	pCi/mL	0.102683	0.314424	U
11/22/2010	HTO	0.356118	pCi/mL	0.104281	0.314424	=
11/23/2010	HTO	0.255235	pCi/mL	0.101812	0.314424	U
11/23/2010	HTO	0.371251	pCi/mL	0.104647	0.314424	=
11/24/2010	HTO	0.618415	pCi/mL	0.110443	0.314424	=
11/24/2010	HTO	0.628503	pCi/mL	0.110673	0.314424	=
11/25/2010	HTO	0.344212	pCi/mL	0.111378	0.34026	=
11/25/2010	HTO	0.457575	pCi/mL	0.113971	0.34026	=
11/26/2010	HTO	0.447269	pCi/mL	0.113737	0.34026	=
11/26/2010	HTO	0.529715	pCi/mL	0.11559	0.34026	=
11/27/2010	HTO	0.364823	pCi/mL	0.111854	0.34026	=
11/27/2010	HTO	0.493645	pCi/mL	0.114783	0.34026	=
11/28/2010	HTO	0.344212	pCi/mL	0.111378	0.34026	=
11/28/2010	HTO	0.457575	pCi/mL	0.113971	0.34026	=
11/29/2010	HTO	0.421505	pCi/mL	0.113152	0.34026	=
11/29/2010	HTO	0.493645	pCi/mL	0.114783	0.34026	=
11/30/2010	HTO	0.333906	pCi/mL	0.11114	0.34026	U
11/30/2010	HTO	0.385435	pCi/mL	0.112328	0.34026	=
12/1/2010	HTO	0.138097	pCi/mL	0.106504	0.34026	U
12/1/2010	HTO	0.318447	pCi/mL	0.110781	0.34026	U
12/2/2010	HTO	0.328753	pCi/mL	0.11102	0.34026	U
12/2/2010	HTO	0.380282	pCi/mL	0.11221	0.34026	=
12/3/2010	HTO	0.369976	pCi/mL	0.111973	0.34026	=
12/3/2010	HTO	0.411199	pCi/mL	0.112917	0.34026	=
12/4/2010	HTO	0.246307	pCi/mL	0.10909	0.34026	U
12/4/2010	HTO	0.302989	pCi/mL	0.110421	0.34026	U
12/5/2010	HTO	0.14325	pCi/mL	0.106628	0.34026	U
12/5/2010	HTO	0.28753	pCi/mL	0.110059	0.34026	U
12/6/2010	HTO	0.241154	pCi/mL	0.108968	0.34026	U
12/6/2010	HTO	0.272072	pCi/mL	0.109697	0.34026	U
12/7/2010	HTO	0.369976	pCi/mL	0.111973	0.34026	=
12/7/2010	HTO	0.436964	pCi/mL	0.113504	0.34026	=
12/8/2010	HTO	0.354518	pCi/mL	0.111616	0.34026	=
12/8/2010	HTO	0.364823	pCi/mL	0.111854	0.34026	=
12/9/2010	HTO	0.210237	pCi/mL	0.108235	0.34026	U
12/9/2010	HTO	0.447269	pCi/mL	0.113737	0.34026	=
12/10/2010	HTO	0.246307	pCi/mL	0.10909	0.34026	U
12/10/2010	HTO	0.302989	pCi/mL	0.110421	0.34026	U
12/11/2010	HTO	0.318447	pCi/mL	0.110781	0.34026	U
12/11/2010	HTO	0.380282	pCi/mL	0.11221	0.34026	=
12/12/2010	HTO	0.210237	pCi/mL	0.108235	0.34026	U
12/12/2010	HTO	0.256613	pCi/mL	0.109333	0.34026	U

EDRN HTO Activity for 2010

Collection Date	Isotope	Activity	Units	CU	MDA	Code
1/1/2010	HTO	45.18263	pCi/mL	0.479225	0.301227	=
1/1/2010	HTO	45.67248	pCi/mL	0.481722	0.301227	=
1/12/2010	HTO	174.2068	pCi/mL	0.932794	0.336521	=
1/12/2010	HTO	176.5657	pCi/mL	0.939013	0.336521	=
1/14/2010	HTO	33.94024	pCi/mL	0.421774	0.336521	=
1/14/2010	HTO	34.40906	pCi/mL	0.424508	0.336521	=
1/15/2010	HTO	113.709	pCi/mL	0.756009	0.336521	=
1/15/2010	HTO	113.8867	pCi/mL	0.756589	0.336521	=
1/16/2010	HTO	38.85546	pCi/mL	0.44961	0.336521	=
1/16/2010	HTO	40.41985	pCi/mL	0.458115	0.336521	=
1/17/2010	HTO	18.37041	pCi/mL	0.317894	0.336521	=
1/17/2010	HTO	19.13533	pCi/mL	0.323777	0.336521	=
1/18/2010	HTO	69.54109	pCi/mL	0.594628	0.336521	=
1/18/2010	HTO	70.75509	pCi/mL	0.599644	0.336521	=
1/19/2010	HTO	247.0617	pCi/mL	1.108892	0.336521	=
1/19/2010	HTO	247.1061	pCi/mL	1.10899	0.336521	=
1/20/2010	HTO	199.2863	pCi/mL	0.996931	0.336521	=
1/20/2010	HTO	200.525	pCi/mL	0.999992	0.336521	=
1/21/2010	HTO	55.41228	pCi/mL	0.532782	0.336521	=
1/21/2010	HTO	56.89277	pCi/mL	0.539595	0.336521	=
1/22/2010	HTO	122.0886	pCi/mL	0.782881	0.336521	=
1/22/2010	HTO	122.9128	pCi/mL	0.785474	0.336521	=
1/23/2010	HTO	173.4814	pCi/mL	0.930873	0.336521	=
1/23/2010	HTO	184.136	pCi/mL	0.958699	0.336521	=
1/24/2010	HTO	127.823	pCi/mL	0.800751	0.336521	=
1/24/2010	HTO	129.0765	pCi/mL	0.804604	0.336521	=
2/3/2010	HTO	126.0607	pCi/mL	0.812981	0.335061	=
2/3/2010	HTO	127.4026	pCi/mL	0.81723	0.335061	=
2/4/2010	HTO	203.2883	pCi/mL	1.029334	0.335061	=
2/4/2010	HTO	204.5219	pCi/mL	1.032422	0.335061	=
2/5/2010	HTO	71.0264	pCi/mL	0.613916	0.335061	=
2/5/2010	HTO	72.25478	pCi/mL	0.619058	0.335061	=
2/6/2010	HTO	14.28889	pCi/mL	0.289927	0.335061	=
2/6/2010	HTO	14.4076	pCi/mL	0.290981	0.335061	=
2/7/2010	HTO	23.31074	pCi/mL	0.361416	0.335061	=
2/7/2010	HTO	23.46558	pCi/mL	0.36252	0.335061	=
2/8/2010	HTO	128.28	pCi/mL	0.819996	0.335061	=
2/8/2010	HTO	129.0749	pCi/mL	0.822493	0.335061	=
2/9/2010	HTO	110.2312	pCi/mL	0.761077	0.335061	=
2/9/2010	HTO	110.3912	pCi/mL	0.76162	0.335061	=
2/10/2010	HTO	11.4915	pCi/mL	0.263855	0.335061	=
2/10/2010	HTO	11.49666	pCi/mL	0.263905	0.335061	=
2/11/2010	HTO	39.39316	pCi/mL	1.128855	1.675303	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
2/11/2010	HTO	41.38024	pCi/mL	1.151344	1.675303	=
2/12/2010	HTO	11.77021	pCi/mL	0.266567	0.335061	=
2/12/2010	HTO	11.9973	pCi/mL	0.268756	0.335061	=
2/13/2010	HTO	37.27705	pCi/mL	1.104403	1.675303	=
2/15/2010	HTO	29.24487	pCi/mL	0.664666	0.837652	=
2/16/2010	HTO	23.25569	pCi/mL	0.478208	0.558434	=
2/16/2010	HTO	24.62341	pCi/mL	0.490356	0.558434	=
2/24/2010	HTO	118.0095	pCi/mL	0.763152	0.311253	=
2/24/2010	HTO	118.3059	pCi/mL	0.764096	0.311253	=
2/25/2010	HTO	53.06766	pCi/mL	0.516523	0.311253	=
2/25/2010	HTO	53.46131	pCi/mL	0.518371	0.311253	=
2/26/2010	HTO	172.3666	pCi/mL	0.920091	0.311253	=
2/26/2010	HTO	173.5281	pCi/mL	0.923153	0.311253	=
2/27/2010	HTO	151.0466	pCi/mL	0.861949	0.311253	=
2/27/2010	HTO	152.4657	pCi/mL	0.86594	0.311253	=
2/28/2010	HTO	21.15806	pCi/mL	0.334246	0.311253	=
2/28/2010	HTO	21.5274	pCi/mL	0.336921	0.311253	=
3/1/2010	HTO	84.01988	pCi/mL	0.645924	0.311253	=
3/1/2010	HTO	85.25914	pCi/mL	0.650569	0.311253	=
3/2/2010	HTO	166.8945	pCi/mL	0.905524	0.311253	=
3/2/2010	HTO	167.7887	pCi/mL	0.90792	0.311253	=
3/3/2010	HTO	206.5895	pCi/mL	1.006422	0.311253	=
3/3/2010	HTO	208.9077	pCi/mL	1.012003	0.311253	=
3/4/2010	HTO	220.9649	pCi/mL	1.040551	0.311253	=
3/4/2010	HTO	221.0426	pCi/mL	1.040733	0.311253	=
3/5/2010	HTO	226.4516	pCi/mL	1.053286	0.311253	=
3/5/2010	HTO	227.3264	pCi/mL	1.055302	0.311253	=
3/6/2010	HTO	227.0883	pCi/mL	1.054754	0.311253	=
3/6/2010	HTO	227.7249	pCi/mL	1.056219	0.311253	=
3/7/2010	HTO	245.6674	pCi/mL	1.096721	0.311253	=
3/7/2010	HTO	246.9601	pCi/mL	1.099581	0.311253	=
3/8/2010	HTO	209.4179	pCi/mL	1.013228	0.311253	=
3/8/2010	HTO	209.5103	pCi/mL	1.013449	0.311253	=
3/9/2010	HTO	249.39	pCi/mL	1.104938	0.311253	=
3/9/2010	HTO	249.944	pCi/mL	1.106156	0.311253	=
3/10/2010	HTO	104.3874	pCi/mL	0.718471	0.311253	=
3/10/2010	HTO	105.9766	pCi/mL	0.723826	0.311253	=
3/11/2010	HTO	193.2007	pCi/mL	0.973559	0.311253	=
3/11/2010	HTO	194.0317	pCi/mL	0.975631	0.311253	=
3/12/2010	HTO	230.5387	pCi/mL	1.062673	0.311253	=
3/12/2010	HTO	230.9178	pCi/mL	1.063539	0.311253	=
3/13/2010	HTO	18.34422	pCi/mL	0.313123	0.311253	=
3/13/2010	HTO	18.73786	pCi/mL	0.316163	0.311253	=
3/14/2010	HTO	48.27102	pCi/mL	0.493442	0.311253	=
3/14/2010	HTO	48.92709	pCi/mL	0.496662	0.311253	=
3/15/2010	HTO	101.0098	pCi/mL	0.706956	0.311253	=
3/15/2010	HTO	101.9867	pCi/mL	0.710305	0.311253	=
3/16/2010	HTO	163.0552	pCi/mL	0.895162	0.311253	=
3/16/2010	HTO	164.45	pCi/mL	0.898941	0.311253	=
3/17/2010	HTO	185.668	pCi/mL	0.954573	0.311253	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
3/17/2010	HTO	186.1831	pCi/mL	0.955884	0.311253	=
3/18/2010	HTO	205.5871	pCi/mL	1.033426	0.319701	=
3/18/2010	HTO	206.9001	pCi/mL	1.036692	0.319701	=
3/19/2010	HTO	211.663	pCi/mL	1.048453	0.319701	=
3/19/2010	HTO	212.286	pCi/mL	1.049982	0.319701	=
3/20/2010	HTO	226.6777	pCi/mL	1.084696	0.319701	=
3/20/2010	HTO	227.3367	pCi/mL	1.086259	0.319701	=
3/21/2010	HTO	122.2853	pCi/mL	0.799401	0.319701	=
3/21/2010	HTO	122.3677	pCi/mL	0.799666	0.319701	=
3/22/2010	HTO	71.89136	pCi/mL	0.616084	0.319701	=
3/22/2010	HTO	72.24665	pCi/mL	0.617567	0.319701	=
3/23/2010	HTO	164.6983	pCi/mL	0.925975	0.319701	=
3/23/2010	HTO	165.0947	pCi/mL	0.927076	0.319701	=
3/24/2010	HTO	228.727	pCi/mL	1.089549	0.319701	=
3/24/2010	HTO	230.5189	pCi/mL	1.093775	0.319701	=
3/25/2010	HTO	175.9696	pCi/mL	0.9568	0.319701	=
3/25/2010	HTO	177.3701	pCi/mL	0.960561	0.319701	=
3/26/2010	HTO	41.88771	pCi/mL	0.474414	0.319701	=
3/26/2010	HTO	41.9392	pCi/mL	0.474693	0.319701	=
4/3/2010	HTO	39.76115	pCi/mL	0.46273	0.319701	=
4/3/2010	HTO	40.05979	pCi/mL	0.464388	0.319701	=
4/7/2010	HTO	387.6068	pCi/mL	1.416051	0.319701	=
4/7/2010	HTO	388.1114	pCi/mL	1.416969	0.319701	=
4/8/2010	HTO	106.8169	pCi/mL	0.740832	0.303808	=
4/8/2010	HTO	108.4736	pCi/mL	0.746467	0.303808	=
4/9/2010	HTO	282.5392	pCi/mL	1.199067	0.303808	=
4/9/2010	HTO	284.5399	pCi/mL	1.20328	0.303808	=
4/10/2010	HTO	292.0521	pCi/mL	1.218969	0.303808	=
4/10/2010	HTO	292.4846	pCi/mL	1.219866	0.303808	=
4/11/2010	HTO	312.9497	pCi/mL	1.261587	0.303808	=
4/11/2010	HTO	318.2765	pCi/mL	1.272222	0.303808	=
4/12/2010	HTO	313.4454	pCi/mL	1.26258	0.303808	=
4/12/2010	HTO	315.0111	pCi/mL	1.265713	0.303808	=
4/13/2010	HTO	319.5387	pCi/mL	1.274728	0.303808	=
4/13/2010	HTO	320.8666	pCi/mL	1.277361	0.303808	=
4/14/2010	HTO	328.1638	pCi/mL	1.291729	0.303808	=
4/14/2010	HTO	328.9201	pCi/mL	1.293209	0.303808	=
4/15/2010	HTO	331.2825	pCi/mL	1.297822	0.303808	=
4/15/2010	HTO	331.7529	pCi/mL	1.298738	0.303808	=
4/16/2010	HTO	179.3666	pCi/mL	0.956996	0.303808	=
4/16/2010	HTO	180.8007	pCi/mL	0.960779	0.303808	=
4/17/2010	HTO	300.7632	pCi/mL	1.236913	0.303808	=
4/17/2010	HTO	301.4158	pCi/mL	1.238246	0.303808	=
4/18/2010	HTO	342.3282	pCi/mL	1.319173	0.303808	=
4/18/2010	HTO	342.3611	pCi/mL	1.319236	0.303808	=
4/19/2010	HTO	351.2037	pCi/mL	1.336083	0.303808	=
4/19/2010	HTO	352.395	pCi/mL	1.338336	0.303808	=
4/20/2010	HTO	255.3966	pCi/mL	1.140375	0.303808	=
4/20/2010	HTO	257.0205	pCi/mL	1.143971	0.303808	=
4/21/2010	HTO	349.8682	pCi/mL	1.333552	0.303808	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
4/21/2010	HTO	351.2341	pCi/mL	1.33614	0.303808	=
4/22/2010	HTO	368.5374	pCi/mL	1.368504	0.303808	=
4/22/2010	HTO	371.087	pCi/mL	1.373208	0.303808	=
4/23/2010	HTO	76.6037	pCi/mL	0.629279	0.303808	=
4/23/2010	HTO	76.63659	pCi/mL	0.629411	0.303808	=
4/24/2010	HTO	30.86528	pCi/mL	0.405727	0.303808	=
4/24/2010	HTO	31.04739	pCi/mL	0.406861	0.303808	=
4/28/2010	HTO	333.7233	pCi/mL	1.30257	0.303808	=
4/28/2010	HTO	335.9264	pCi/mL	1.306841	0.303808	=
4/29/2010	HTO	323.4794	pCi/mL	1.282524	0.303808	=
4/29/2010	HTO	324.8225	pCi/mL	1.28517	0.303808	=
4/30/2010	HTO	269.3157	pCi/mL	1.238454	0.334204	=
4/30/2010	HTO	269.6325	pCi/mL	1.239177	0.334204	=
5/1/2010	HTO	285.0732	pCi/mL	1.273934	0.334204	=
5/1/2010	HTO	291.0526	pCi/mL	1.287141	0.334204	=
5/2/2010	HTO	15.39121	pCi/mL	0.311968	0.334204	=
5/2/2010	HTO	15.59769	pCi/mL	0.313834	0.334204	=
5/3/2010	HTO	182.5264	pCi/mL	1.021177	0.334204	=
5/3/2010	HTO	185.2983	pCi/mL	1.028826	0.334204	=
5/4/2010	HTO	315.9433	pCi/mL	1.340723	0.334204	=
5/4/2010	HTO	322.924	pCi/mL	1.35537	0.334204	=
5/5/2010	HTO	116.8546	pCi/mL	0.819329	0.334204	=
5/5/2010	HTO	117.0102	pCi/mL	0.819866	0.334204	=
5/6/2010	HTO	106.0413	pCi/mL	0.781108	0.334204	=
5/6/2010	HTO	107.1473	pCi/mL	0.785102	0.334204	=
5/7/2010	HTO	105.4247	pCi/mL	1.01117	0.557007	=
5/7/2010	HTO	107.4188	pCi/mL	1.020424	0.557007	=
5/8/2010	HTO	105.156	pCi/mL	0.777895	0.334204	=
5/8/2010	HTO	108.7199	pCi/mL	0.790748	0.334204	=
5/9/2010	HTO	17.80108	pCi/mL	0.333101	0.334204	=
5/9/2010	HTO	17.87179	pCi/mL	0.333701	0.334204	=
5/10/2010	HTO	17.7841	pCi/mL	0.332957	0.334204	=
5/10/2010	HTO	17.8633	pCi/mL	0.333629	0.334204	=
5/11/2010	HTO	60.44333	pCi/mL	0.59345	0.334204	=
5/11/2010	HTO	62.17436	pCi/mL	0.601644	0.334204	=
5/12/2010	HTO	114.9426	pCi/mL	1.872844	1.671021	=
5/12/2010	HTO	116.2578	pCi/mL	1.88275	1.671021	=
5/21/2010	HTO	42.00688	pCi/mL	0.490121	0.356805	=
5/21/2010	HTO	43.29078	pCi/mL	0.497195	0.356805	=
5/22/2010	HTO	32.2362	pCi/mL	0.432508	0.356805	=
5/22/2010	HTO	32.30148	pCi/mL	0.432919	0.356805	=
5/23/2010	HTO	121.9241	pCi/mL	0.821577	0.356805	=
5/23/2010	HTO	123.8826	pCi/mL	0.828036	0.356805	=
5/24/2010	HTO	208.3262	pCi/mL	1.070064	0.356805	=
5/24/2010	HTO	210.6165	pCi/mL	1.07587	0.356805	=
5/25/2010	HTO	260.101	pCi/mL	1.194448	0.356805	=
5/25/2010	HTO	261.9888	pCi/mL	1.198739	0.356805	=
5/26/2010	HTO	287.9279	pCi/mL	1.256221	0.356805	=
5/26/2010	HTO	290.9962	pCi/mL	1.262847	0.356805	=
5/27/2010	HTO	338.5603	pCi/mL	1.361449	0.356805	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
5/27/2010	HTO	339.496	pCi/mL	1.363317	0.356805	=
5/28/2010	HTO	347.7761	pCi/mL	1.379739	0.356805	=
5/28/2010	HTO	351.7692	pCi/mL	1.387589	0.356805	=
5/29/2010	HTO	356.4424	pCi/mL	1.39672	0.356805	=
5/29/2010	HTO	356.9919	pCi/mL	1.397789	0.356805	=
5/31/2010	HTO	65.44348	pCi/mL	0.606399	0.356805	=
5/31/2010	HTO	70.94901	pCi/mL	0.630611	0.356805	=
6/1/2010	HTO	175.7173	pCi/mL	0.983685	0.356805	=
6/1/2010	HTO	175.886	pCi/mL	0.984151	0.356805	=
7/8/2010	HTO	5.429983	pCi/mL	0.183437	0.298996	=
7/8/2010	HTO	5.54711	pCi/mL	0.184926	0.298996	=
7/9/2010	HTO	4.132222	pCi/mL	0.166039	0.298996	=
7/9/2010	HTO	4.539822	pCi/mL	0.171693	0.298996	=
7/10/2010	HTO	4.291514	pCi/mL	0.168271	0.298996	=
7/10/2010	HTO	4.544507	pCi/mL	0.171757	0.298996	=
7/11/2010	HTO	4.450806	pCi/mL	0.170474	0.298996	=
7/11/2010	HTO	4.535137	pCi/mL	0.171629	0.298996	=
7/12/2010	HTO	4.150962	pCi/mL	0.166303	0.298996	=
7/12/2010	HTO	4.249348	pCi/mL	0.167683	0.298996	=
7/13/2010	HTO	4.277459	pCi/mL	0.168075	0.298996	=
7/13/2010	HTO	4.3899	pCi/mL	0.169635	0.298996	=
7/14/2010	HTO	4.497656	pCi/mL	0.171117	0.298996	=
7/14/2010	HTO	4.577302	pCi/mL	0.172204	0.298996	=
7/15/2010	HTO	4.319624	pCi/mL	0.168662	0.298996	=
7/15/2010	HTO	4.385215	pCi/mL	0.169571	0.298996	=
7/16/2010	HTO	4.029151	pCi/mL	0.164578	0.298996	=
7/16/2010	HTO	4.104112	pCi/mL	0.165642	0.298996	=
8/13/2010	HTO	129.0241	pCi/mL	0.801951	0.32247	=
8/13/2010	HTO	130.4825	pCi/mL	0.806404	0.32247	=
8/14/2010	HTO	216.9569	pCi/mL	1.036784	0.32247	=
8/14/2010	HTO	218.5381	pCi/mL	1.040522	0.32247	=
8/15/2010	HTO	33.42105	pCi/mL	0.41673	0.32247	=
8/15/2010	HTO	35.01697	pCi/mL	0.426029	0.32247	=
8/16/2010	HTO	68.33	pCi/mL	0.58744	0.32247	=
8/16/2010	HTO	70.42679	pCi/mL	0.596139	0.32247	=
8/17/2010	HTO	180.8793	pCi/mL	0.947503	0.32247	=
8/17/2010	HTO	183.0006	pCi/mL	0.952984	0.32247	=
8/18/2010	HTO	128.1304	pCi/mL	0.79921	0.32247	=
8/18/2010	HTO	128.2728	pCi/mL	0.799647	0.32247	=
8/19/2010	HTO	116.3599	pCi/mL	0.762192	0.32247	=
8/19/2010	HTO	117.1799	pCi/mL	0.764829	0.32247	=
8/20/2010	HTO	246.4545	pCi/mL	1.104432	0.32247	=
8/20/2010	HTO	246.9946	pCi/mL	1.105632	0.32247	=
8/21/2010	HTO	321.7427	pCi/mL	1.260744	0.32247	=
8/21/2010	HTO	322.0864	pCi/mL	1.261413	0.32247	=
8/22/2010	HTO	129.2402	pCi/mL	0.802612	0.32247	=
8/22/2010	HTO	129.7263	pCi/mL	0.804098	0.32247	=
9/3/2010	HTO	21.72195	pCi/mL	0.338363	0.314944	=
9/3/2010	HTO	22.0761	pCi/mL	0.340892	0.314944	=
9/4/2010	HTO	30.55142	pCi/mL	0.396641	0.314944	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
9/4/2010	HTO	31.1724	pCi/mL	0.400421	0.314944	=
9/5/2010	HTO	116.663	pCi/mL	0.758342	0.314944	=
9/5/2010	HTO	116.7746	pCi/mL	0.758699	0.314944	=
9/6/2010	HTO	149.8512	pCi/mL	0.857957	0.314944	=
9/6/2010	HTO	150.0598	pCi/mL	0.858546	0.314944	=
9/11/2010	HTO	153.6013	pCi/mL	0.868495	0.314944	=
9/11/2010	HTO	153.9263	pCi/mL	0.869402	0.314944	=
9/12/2010	HTO	27.60665	pCi/mL	0.378204	0.314944	=
9/12/2010	HTO	28.09664	pCi/mL	0.381333	0.314944	=
9/13/2010	HTO	95.82644	pCi/mL	0.688474	0.314944	=
9/13/2010	HTO	98.66448	pCi/mL	0.698402	0.314944	=
9/14/2010	HTO	116.173	pCi/mL	0.756773	0.314944	=
9/14/2010	HTO	116.2846	pCi/mL	0.75713	0.314944	=
9/16/2010	HTO	15.19688	pCi/mL	0.287809	0.314944	=
9/16/2010	HTO	15.20173	pCi/mL	0.287849	0.314944	=
9/17/2010	HTO	36.06257	pCi/mL	0.429023	0.314944	=
9/17/2010	HTO	36.34394	pCi/mL	0.430611	0.314944	=
9/18/2010	HTO	88.15159	pCi/mL	0.660881	0.314944	=
9/18/2010	HTO	88.23406	pCi/mL	0.661183	0.314944	=
9/19/2010	HTO	108.6825	pCi/mL	0.73237	0.314944	=
9/19/2010	HTO	110.3174	pCi/mL	0.737765	0.314944	=
11/5/2010	HTO	45.26012	pCi/mL	0.487534	0.326078	=
11/5/2010	HTO	45.56731	pCi/mL	0.489118	0.326078	=
11/6/2010	HTO	99.38594	pCi/mL	0.714326	0.326078	=
11/6/2010	HTO	99.87946	pCi/mL	0.716063	0.326078	=
11/7/2010	HTO	183.8128	pCi/mL	0.967174	0.326078	=
11/7/2010	HTO	185.5602	pCi/mL	0.971713	0.326078	=
11/8/2010	HTO	11.2225	pCi/mL	0.257447	0.326078	=
11/8/2010	HTO	11.77141	pCi/mL	0.262761	0.326078	=
11/24/2010	HTO	103.7269	pCi/mL	0.729467	0.326078	=
11/24/2010	HTO	108.0729	pCi/mL	0.744317	0.326078	=
11/25/2010	HTO	27.71202	pCi/mL	0.388822	0.313313	=
11/25/2010	HTO	28.41486	pCi/mL	0.393431	0.313313	=
11/26/2010	HTO	3.697587	pCi/mL	0.167283	0.313313	=
11/27/2010	HTO	83.35409	pCi/mL	0.660785	0.313313	=
11/27/2010	HTO	83.78503	pCi/mL	0.662456	0.313313	=
11/28/2010	HTO	219.5145	pCi/mL	1.065442	0.313313	=
11/28/2010	HTO	222.331	pCi/mL	1.072201	0.313313	=
11/29/2010	HTO	248.5514	pCi/mL	1.133195	0.313313	=
11/29/2010	HTO	251.6295	pCi/mL	1.140141	0.313313	=
11/30/2010	HTO	94.8252	pCi/mL	0.703908	0.313313	=
11/30/2010	HTO	94.84059	pCi/mL	0.703964	0.313313	=
12/1/2010	HTO	3.502639	pCi/mL	0.164266	0.313313	=
12/1/2010	HTO	3.548811	pCi/mL	0.164986	0.313313	=
12/2/2010	HTO	101.3765	pCi/mL	0.727389	0.313313	=
12/2/2010	HTO	102.6795	pCi/mL	0.73197	0.313313	=
12/3/2010	HTO	69.72317	pCi/mL	0.605564	0.313313	=
12/3/2010	HTO	72.09845	pCi/mL	0.615543	0.313313	=
12/4/2010	HTO	71.49822	pCi/mL	0.613037	0.313313	=
12/4/2010	HTO	72.63199	pCi/mL	0.617762	0.313313	=

Collection Date	Isotope	Activity	Units	CU	MDA	Code
12/5/2010	HTO	32.88325	pCi/mL	0.421559	0.313313	=
12/5/2010	HTO	33.43731	pCi/mL	0.424917	0.313313	=
12/6/2010	HTO	6.97578	pCi/mL	0.211663	0.313313	=
12/6/2010	HTO	7.293852	pCi/mL	0.215483	0.313313	=
12/12/2010	HTO	12.67029	pCi/mL	0.272057	0.313313	=
12/12/2010	HTO	13.36287	pCi/mL	0.278511	0.313313	=

APPENDIX 4. Figures.

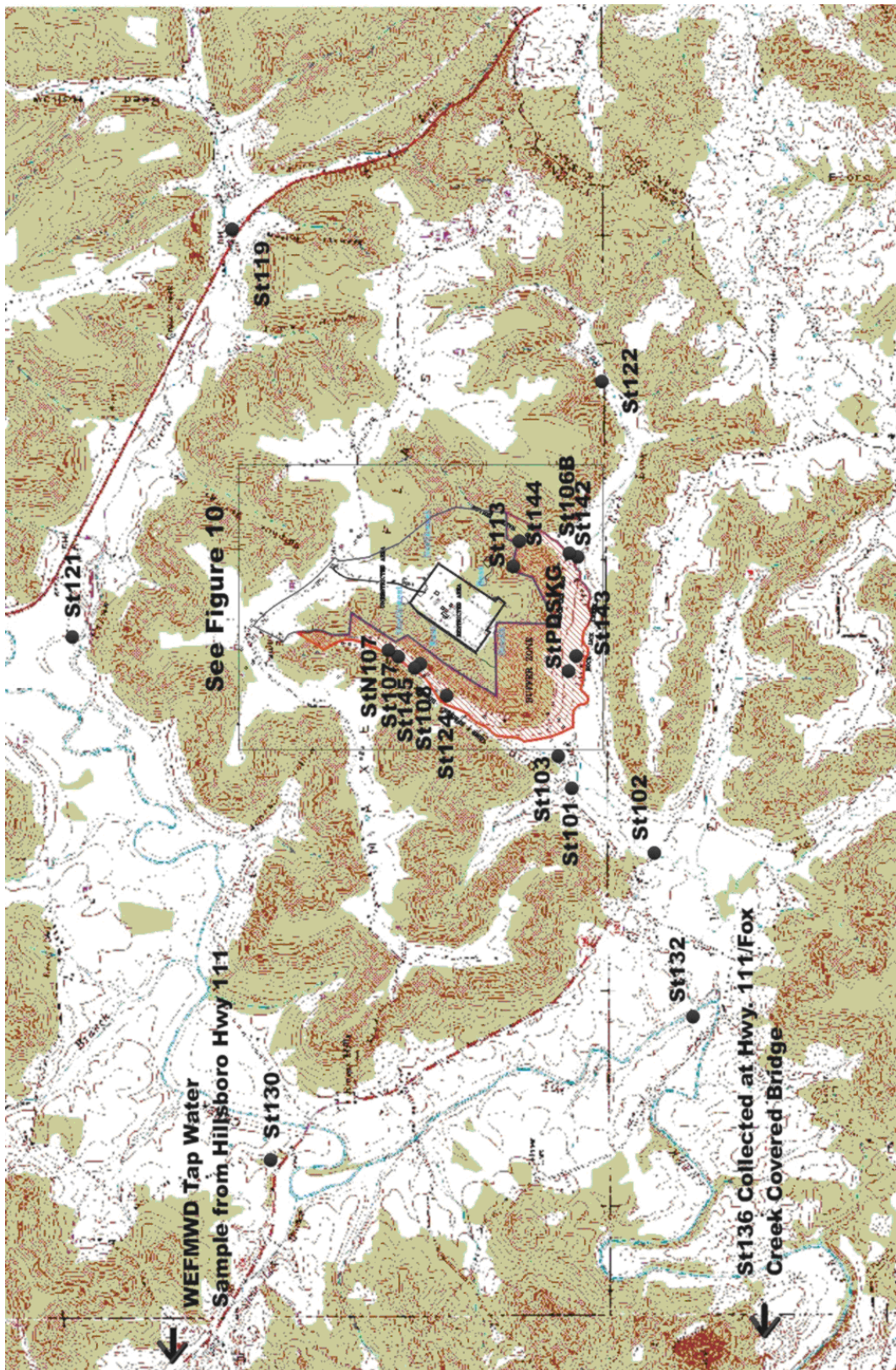


Figure 1. Background and off-site surface water sampling locations

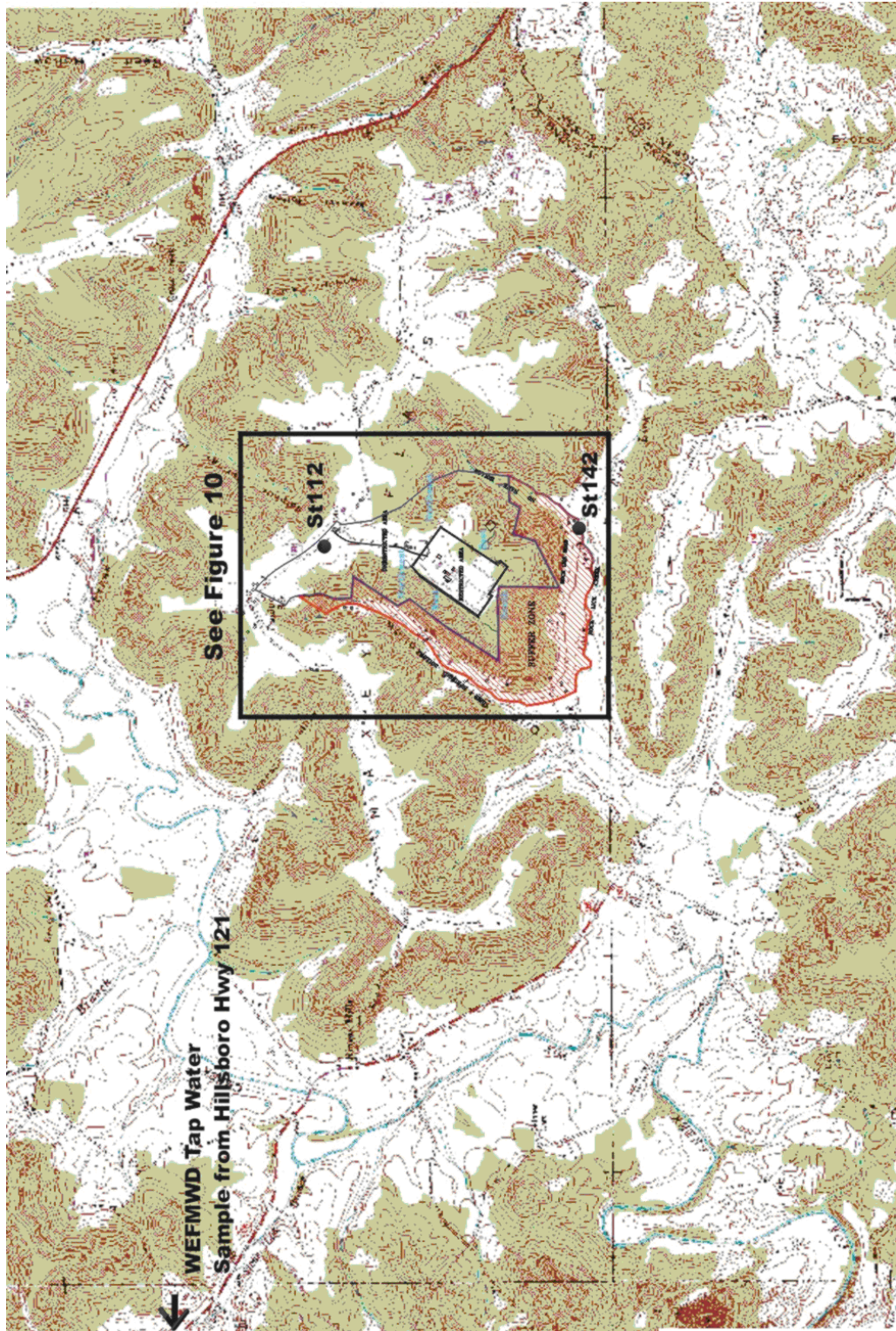


Figure 2. Background and off-site groundwater and drinking water locations

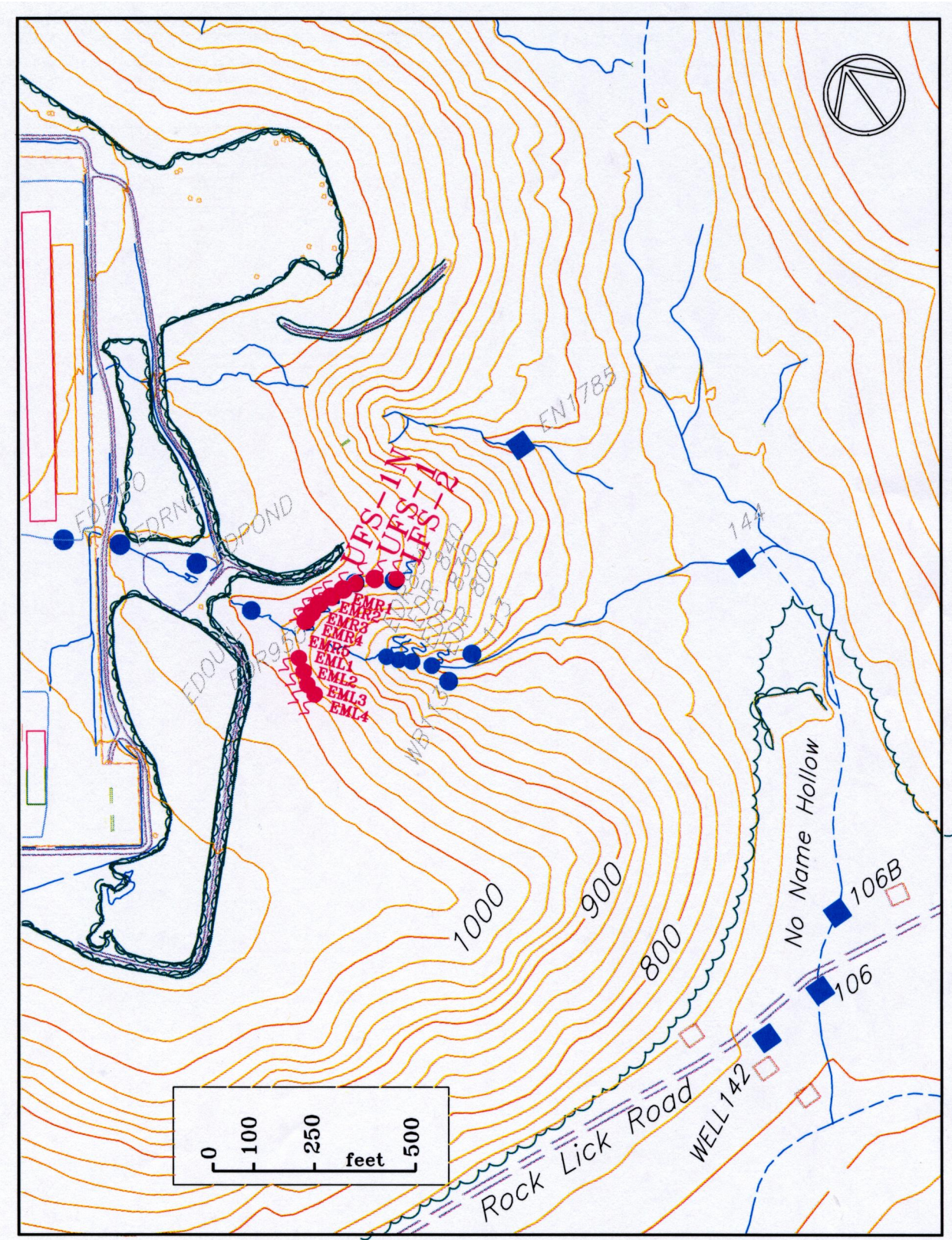


Figure 3. East Drain Hillside seep sampling locations.

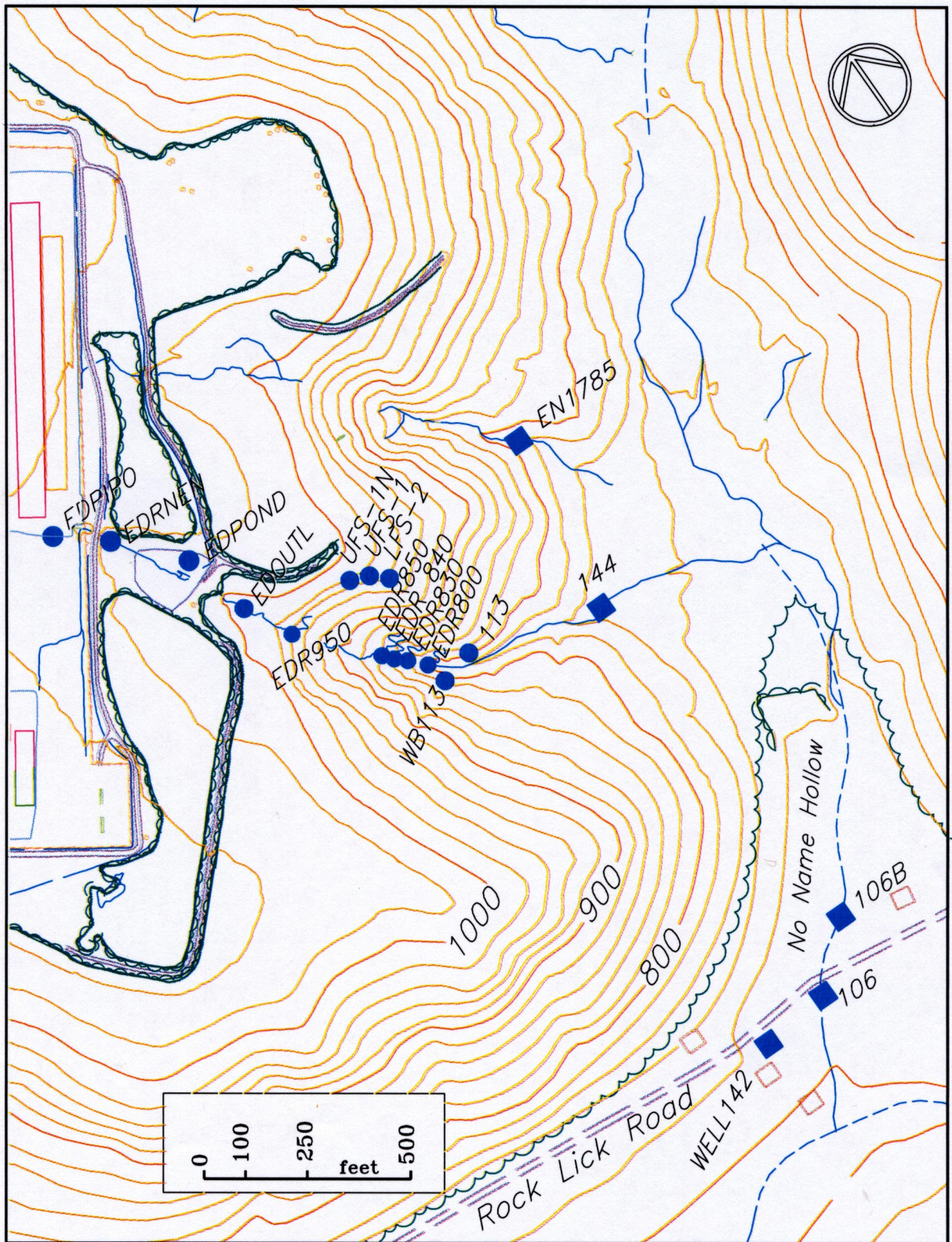


Figure 4. East Drain Hillside surface-water sampling locations.

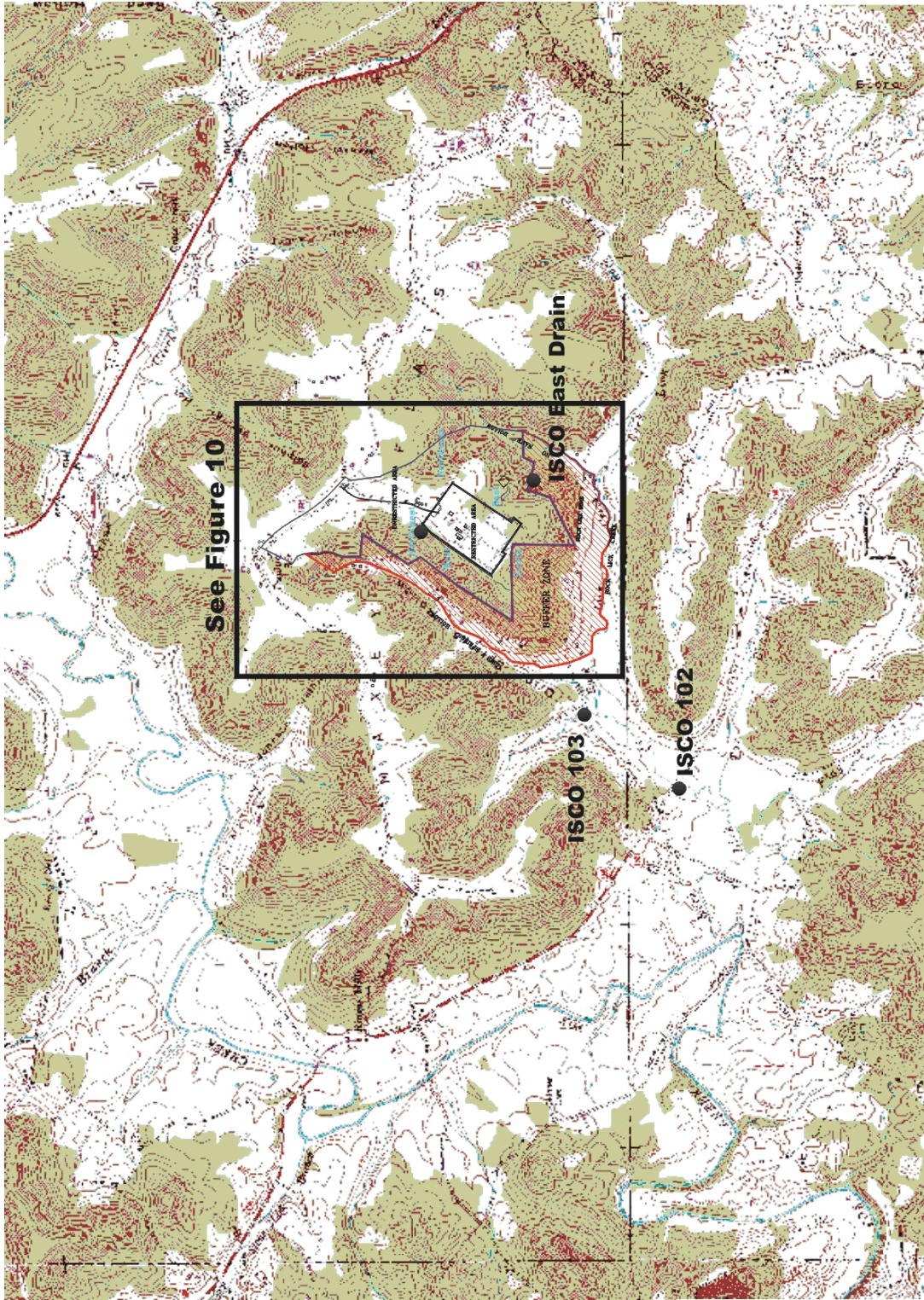


Figure 5. Automated surface water sampling locations (ISCO East Drain = EDRN)

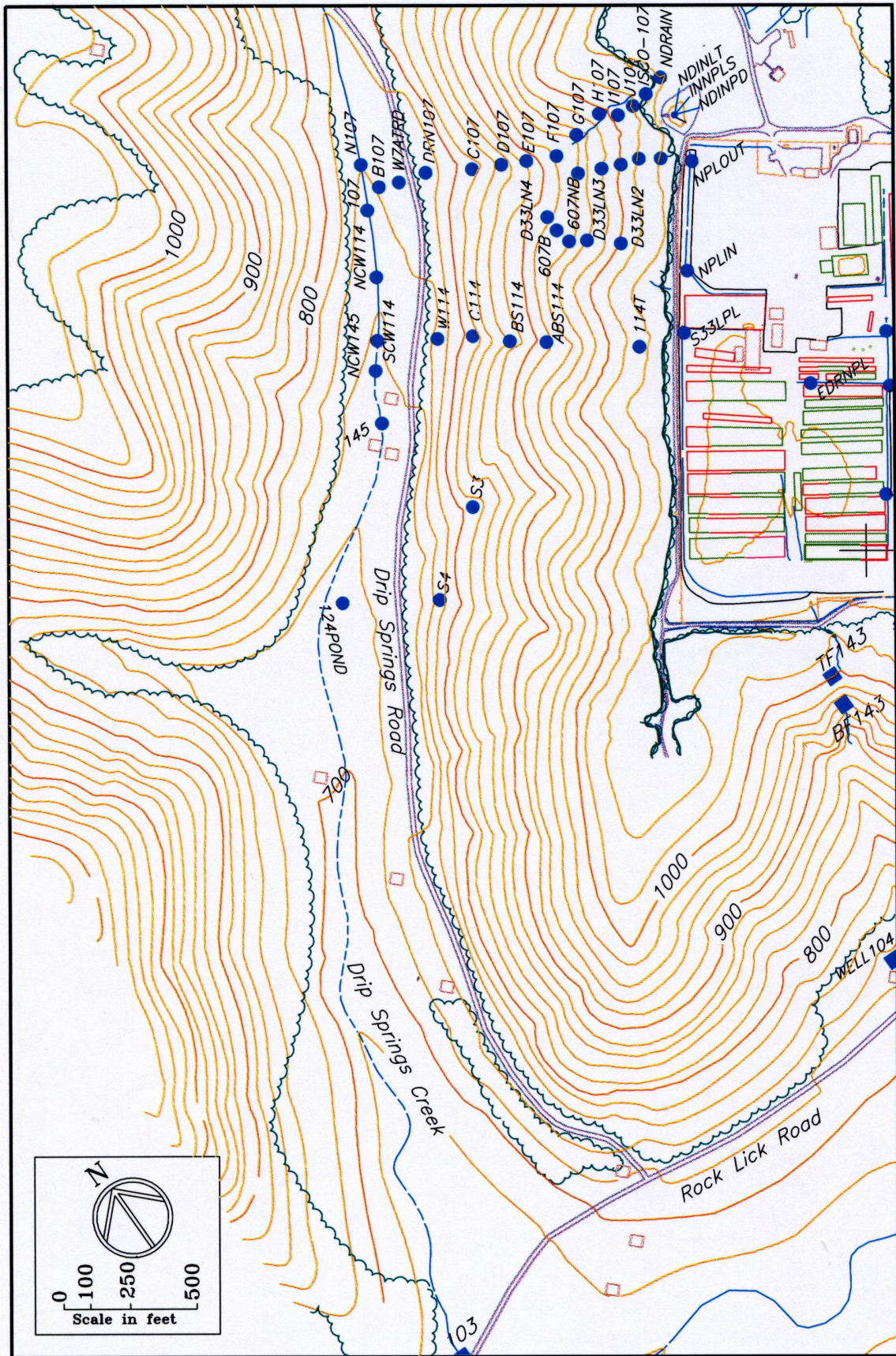


Figure 6. West Hillside surface-water sampling locations.

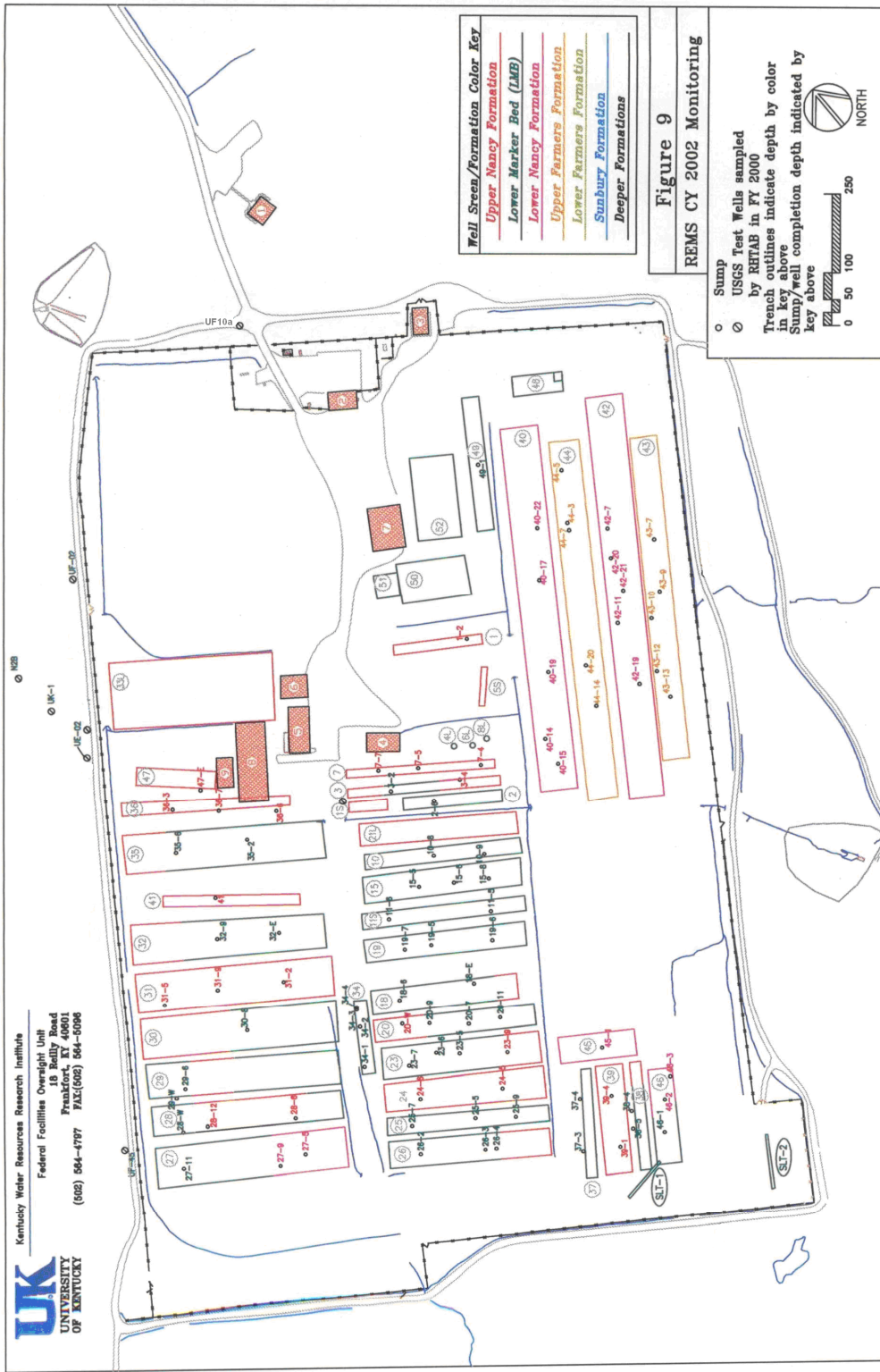


Figure 7. USGS Wells

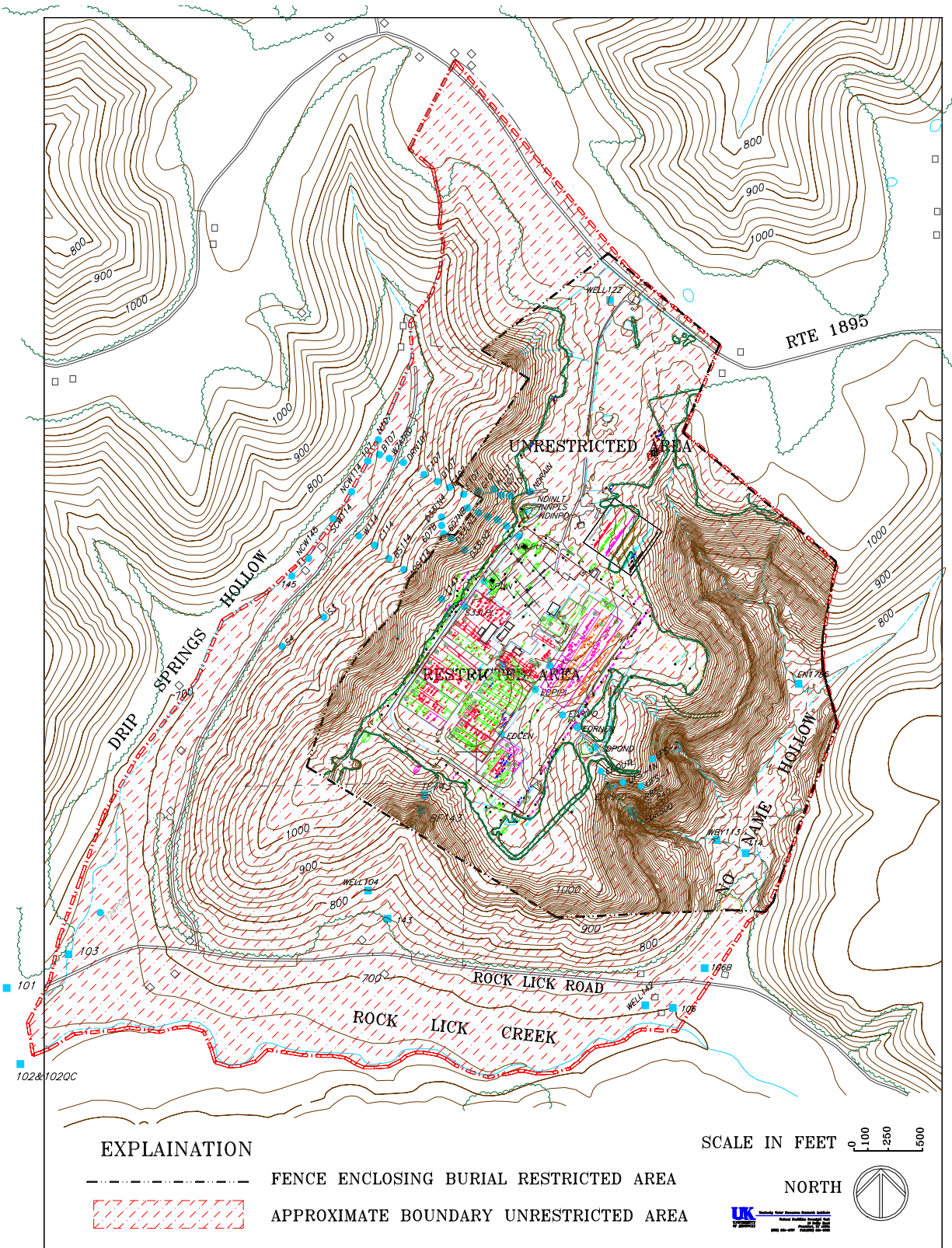


Figure 8. Maxey Flats Nuclear Disposal Site Area Map.

APPENDIX 5 – Maxey Flats Data Summaries